

SCHEDA DI DATI DI SICUREZZA

(secondo il REGOLAMENTO (UE) 2020/878)

0055-Filnet



Versione 1 Data di compilazione: 1/10/2018

Versione 5 (sostituisce la versione 4) Data di revisione: 09/03/2022

Pagina 1 di 10

Data di stampa: 26/11/2024

SEZIONE 1: IDENTIFICAZIONE DELLA SOSTANZA/MISCELA E DELLA SOCIETÀ/IMPRESA.

1.1 Identificatore del prodotto.

Nome prodotto: Filnet
Codice di prodotto: 0055
Nome chimico: acido solfammidico
Numero della sostanza: 016-026-00-0
N. CAS: 5329-14-6
N. EC: 226-218-8
N. Registrazione: 01-2119488633-28-XXXX

1.2 Usi identificati pertinenti della sostanza o della miscela e usi sconsigliati.

Disincrostante polvere per filtri

Usi sconsigliati:

Usi differenti a quelli consigliati.

Gli scenari di esposizione relativi agli usi si possono trovare nell'Allegato.

1.3 Informazioni sul fornitore della scheda di dati di sicurezza.

Impresa: **FLUIDRA COMMERCIAL, S.A.U.**
Indirizzo: Av. Alcalde Barnils, 69
Città: 08174 Sant Cugat del Vallès (Barcelona) Spain
Provincia: Barcelona
Telefono: Tel:34 93 724 39 00 Fax:34 93 724 29 93
Fax: +34 93 713 41 11
E-mail: fds@inquide.com
Web: www.astralpool.com

1.4 Numero telefonico di emergenza: +34 93 724 39 00 (Disponibile soltanto in orario di ufficio; Lunedì-Venerdì; 08:00-18:00)

CAV accreditati: Roma +39 06 68 59 3726; Foggia +39 800 18 34 59; Napoli +39 081 54 53 333; Roma +39 06 49 97 80 00; Roma +39 06 30 54 343; Firenze +39 055 79 47 819; Pavia +39 0382 24 444; Milano +39 02 66 10 10 29; Bergamo +39 800 88 33 00; Verona +39 800 01 18 58.

SEZIONE 2: IDENTIFICAZIONE DEI PERICOLI.

2.1 Classificazione della sostanza o della miscela.

Secondo il Regolamento (EU) No 1272/2008:

Aquatic Chronic 3 : Nocivo per gli organismi acquatici con effetti di lunga durata.

Eye Irrit. 2 : Provoca grave irritazione oculare.

Skin Irrit. 2 : Provoca irritazione cutanea.

2.2 Elementi dell'etichetta.

Etichettatura secondo regolamento (CE) n. 1272/2008:

Pittogrammi:



Parola di avvertimento:

Attenzione

Indicazioni di pericolo:

H315 Provoca irritazione cutanea.

- Continua alla prossima pagina. -

SCHEDA DI DATI DI SICUREZZA

(secondo il REGOLAMENTO (UE) 2020/878)

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Versione 1 Data di compilazione: 1/10/2018

Versione 5 (sostituisce la versione 4) Data di revisione: 09/03/2022

Pagina 2 di 10

Data di stampa: 26/11/2024

H319 Provoca grave irritazione oculare.
H412 Nocivo per gli organismi acquatici con effetti di lunga durata.

Consigli di prudenza:

P102 Tenere fuori dalla portata dei bambini.
P273 Non disperdere nell'ambiente.
P302+P352 IN CASO DI CONTATTO CON LA PELLE: lavare abbondantemente con acqua e sapone.
P305+P351+P338 IN CASO DI CONTATTO CON GLI OCCHI: sciacquare accuratamente per parecchi minuti. Togliere le eventuali lenti a contatto se è agevole farlo. Continuare a sciacquare.
P332+P313 In caso di irritazione della pelle: consultare un medico.
P337+P313 Se l'irritazione degli occhi persiste, consultare un medico.
P362+P364 Togliere tutti gli indumenti contaminati e lavarli prima di indossarli nuovamente.
P501 Smaltire il contenuto e/o il contenitore in conformità con le normative sui rifiuti pericolosi.

Contiene:
acido solfammidico

2.3 Altri pericoli.

La sostanza non è PBT
La sostanza non è vPvB
La sostanza non ha proprietà che alterano il sistema endocrino.

Durante il normale uso e nella sua forma originale, il prodotto non ha altri effetti negativi sulla salute e sull'ambiente.

SEZIONE 3: COMPOSIZIONE/INFORMAZIONI SUGLI INGREDIENTI.

3.1 Sostanze.

Identificatori	Nome	Concentrazione	(*)Classificazione - Regolamento 1272/2008	
			Classificazione	Limite di concentrazione specifico e la stima della tossicità acuta
N. della sostanza: 016-026-00-0 N. CAS: 5329-14-6 N. CE: 226-218-8	acido solfammidico	25 - 100 %	Aquatic Chronic 3, H412 - Eye Irrit. 2, H319 - Skin Irrit. 2, H315	-

3.2 Miscele.

Non Applicabile.

SEZIONE 4: MISURE DI PRIMO SOCCORSO.

MISCELA IRRITANTE. Il suo contatto ripetuto o prolungato con la pelle o con le mucose, può causare sintomi irritanti, tali come arrossamento, bolle o dermatite. Alcuni dei sintomi possono non essere immediati. Possono prodursi reazioni allergiche sulla pelle.

4.1 Descrizione delle misure di primo soccorso.

In caso di dubbio o quando i sintomi di malessere persistono, consultare un medico. Non dare mai niente per bocca a persone incoscienti.

Inalazione.

Mettere l'accidentato all'aria aperta, mantenerlo caldo e in riposo, se la respirazione è irregolare o si ferma, praticare respirazione artificiale.

Contatto con gli occhi.

Rimuovere le lenti a contatto se indossate, e se risulta semplice da fare. Lavare abbondantemente gli occhi con acqua pulita e fresca per almeno 10 minuti tenendo le palpebre aperte. Cercare assistenza medica. Non permettere alla persona di strofinare l'occhio colpito.

- Continua alla prossima pagina. -

SCHEDA DI DATI DI SICUREZZA

(secondo il REGOLAMENTO (UE) 2020/878)

0055-Filnet



Versione 1 Data di compilazione: 1/10/2018

Versione 5 (sostituisce la versione 4) Data di revisione: 09/03/2022

Pagina 3 di 10

Data di stampa: 26/11/2024

Contatto con la pelle.

Togliere gli indumenti contaminati. Lavare la pelle vigorosamente con acqua e sapone o un detergente adeguato alla pelle. MAI utilizzare dissolventi o diluenti.

Ingestione.

Se accidentalmente si è ingerito, chiedere immediatamente attenzione medica. Mantenerla a riposo. MAI provocare il vomito.

4.2 Principali sintomi ed effetti, sia acuti che ritardati.

Prodotto Irritante, il contatto ripetuto o prolungato con la pelle e le mucose può provocare arrossamenti, bolle o dermatiti; l'inalazione di nebbia di spruzzo o particelle in sospensione può causare l'irritazione delle vie respiratorie. Alcuni sintomi possono non essere immediati.

4.3 Indicazione dell'eventuale necessità di consultare immediatamente un medico e di trattamenti speciali.

In caso di dubbio o quando i sintomi di malessere persistono, consultare un medico. Non dare mai niente per bocca a persone incoscienti. Coprire la zona colpita con materiale da medicazione sterile asciutto. Proteggere dalla pressione o dalla frizione la zona colpita.

SEZIONE 5: MISURE DI LOTTA ANTINCENDIO.

Il prodotto NON è classificato come infiammabile, in caso di incendio dovrebbe seguire la procedura descritta di seguito:

5.1 Mezzi di estinzione.

Mezzi di estinzione idonei:

Estintore a polvere o CO₂. In caso d'incendi più gravi anche schiuma resistente all'alcol e acqua polverizzata.

Mezzi di estinzione non idonei:

Non usare per l'estinzione spruzzo diretto d'acqua. In presenza di tensione elettrica non è accettabile l'utilizzo di acqua o spuma come mezzo di estinzione.

5.2 Pericoli speciali derivanti dalla sostanza o dalla miscela.

Rischi speciali.

L'esposizione ai prodotti di combustione o decomposizione può essere pregiudiziale per la salute.

5.3 Raccomandazioni per gli addetti all'estinzione degli incendi.

Raffreddare con acqua i depositi, cisterne o recipienti prossimi alla fonte di calore o fuoco. Tenere in conto la direzione del vento. Evitare che i prodotti utilizzati nella lotta contro l'incendio, passino a condotti, fognature o corsi d'acqua. I residui di prodotto e mezzi di estinzione possono contaminare l'ambiente acquatico.

Equipaggiamento di protezione contro incendi.

Secondo la magnitudine dell'incendio, può essere necessario l'uso d'indumenti di protezione contro il calore, equipaggiamento respiratorio autonomo, guanti, occhiali protettivi o maschere facciali e stivali.

SEZIONE 6: MISURE IN CASO DI RILASCIO ACCIDENTALE.

6.1 Precauzioni personali, dispositivi di protezione e procedure in caso di emergenza.

Per il controllo d'esposizione e misure di protezione individuale, vedere sezione 8.

6.2 Precauzioni ambientali.

Prodotto pericoloso per l'ambiente, nel caso in cui si producessero grandi versamenti o se il prodotto contamina laghi, fiumi o fognature, informare le autorità competenti, secondo la legislazione locale. Evitare la contaminazione di condotti, acque superficiali o sotterranee, così come del suolo.

6.3 Metodi e materiali per il contenimento e per la bonifica.

Contenere e raccogliere il prodotto eventualmente fuoriuscito con materiale assorbente inerte (terra, sabbia, vermiculite, terra diatomacea...) e pulire immediatamente la zona con un adeguato decontaminante.

Smaltire i resti di prodotto in contenitori chiusi e adatti allo smaltimento in conformità con le normative locali e nazionali (vedi sezione 13).

6.4 Riferimento ad altre sezioni.

Per il controllo d'esposizione e misure di protezione individuale, vedere sezione 8.

- Continua alla prossima pagina. -

SCHEDA DI DATI DI SICUREZZA

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0055-Filnet



Versione 1 Data di compilazione: 1/10/2018

Versione 5 (sostituisce la versione 4) Data di revisione: 09/03/2022

Pagina 4 di 10

Data di stampa: 26/11/2024

Per la successiva eliminazione dei residui, seguire le raccomandazioni della sezione 13.

SEZIONE 7: MANIPOLAZIONE E IMMAGAZZINAMENTO.

7.1 Precauzioni per la manipolazione sicura.

Per la protezione personale, vedere sezione 8.

Nella zona d'applicazione deve essere proibito fumare, mangiare e bere.

Rispettare la legislazione sulla sicurezza e l'igiene nel lavoro.

Attenzione: i recipienti non sono resistenti alla pressione, non impiegare mai la pressione per svuotare i contenitori. Conservare il prodotto in recipienti di un materiale identico all'originale.

7.2 Condizioni per lo stoccaggio sicuro, comprese eventuali incompatibilità.

Immagazzinare secondo la legislazione locale. Osservare le indicazioni dell'etichetta. Immagazzinare i recipienti tra 5 e 25 °C, in un luogo secco e ben ventilato, lontano dal calore e dai raggi diretti del sole. Mantenere lontano da punti d'ignizione. Mantenere lontano da agenti ossidanti e da materiali fortemente acidi o alcalini. Non fumare. Evitare l'entrata a persone non autorizzate. Una volta aperti i recipienti, devono essere richiusi attentamente e collocati verticalmente per evitare spargimenti.

Il prodotto non viene pregiudicato dalla Direttiva 2012/18/EU (SEVESO III).

7.3 Usi finali particolari.

Nessun uso particolare.

SEZIONE 8: CONTROLLI DELL'ESPOSIZIONE/DELLA PROTEZIONE INDIVIDUALE.

8.1 Parametri di controllo.

Il prodotto NON contiene sostanze con Valori Limite Ambientali di esposizione professionale. Il prodotto NON contiene sostanze con Valori Limite Biologici.

Livello di concentrazione DNEL/DMEL:

Nome	DNEL/DMEL	Tipo	Valore
acido solfammidico N. CAS: 5329-14-6 N. CE: 226-218-8	DNEL (Lavoratori)	Cutanea, Cronico, Effetti sistemici	10 (mg/kg bw/day)
	DNEL (Consumatori)	Cutanea, Cronico, Effetti sistemici	5 (mg/kg bw/day)
	DNEL (Consumatori)	Orale, Cronico, Effetti sistemici	5 (mg/kg bw/day)

DNEL: Derived No Effect Level, (livello senza effetto) livello di esposizione alla sostanza al di sotto della quale non si prevedono effetti avversi.

DMEL: Derived Minimal Effect Level, livello di esposizione che corrisponde a un basso rischio, che si deve considerare come rischio minimo tollerabile.

Niveles de concentración PNEC:

Nome	Dettagli	Valore
acido solfammidico N. CAS: 5329-14-6 N. CE: 226-218-8	acqua (acqua dolce)	0,048 (mg/L)
	acqua (acqua di mare)	0,0048 (mg/L)
	acqua (rilascio intermittente)	0,48 (mg/L)
	STP	2 (mg/L)
	sedimento (acqua dolce)	0,173 (mg/kg sediment dw)
	sedimento (acqua di mare)	0,0173 (mg/kg sediment dw)
	soil	0,00638 (mg/kg soil dw)

- Continua alla prossima pagina. -

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0055-Filnet



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Versione 5 (sostituisce la versione 4) Data di revisione: 09/03/2022

Pagina 5 di 10

Data di stampa: 26/11/2024

PNEC: Predicted No Effect Concentration, (concentrazione prevista senza effetto) concentrazione della sostanza sotto la quale non si verificano effetti negativi nel comportamento del medio ambiente.

8.2 Controlli dell'esposizione.

Misure d'ordine tecnico:

Provvedere ad una ventilazione adeguata, ottenibile mediante una buona estrazione-ventilazione locale e un buon sistema generale di estrazione.

Concentrazione:		100 %	
Usi:		Disincrostante polvere per filtri	
Protezione respiratoria:			
Se si rispettano le misure tecniche raccomandate non è necessario nessuna attrezzatura di protezione individuale.			
Protezione delle mani:			
DPI:	Guanti di protezione contro prodotti chimici.		
Caratteristiche:	Marchio «CE» Categoria III.		
Norme CEN:	EN 374-1, En 374-2, EN 374-3, EN 420		
Manutenzione:	Saranno tenuti in un posto secco, lontano dalle fonti di calore, e si eviterà possibilmente l'esposizione ai raggi solari. Non saranno effettuati sui guanti modifiche che possano alterare la loro resistenza né saranno applicate pitture, solventi o adesivi.		
Commenti:	I guanti devono essere della misura corretta, ed aggiustarsi alla mano senza essere troppo lenti né troppo stretti. Dovranno essere indossati sempre con le mani pulite ed asciutte.		
Material:	PVC (cloruro di polivinile)	Tempo di penetrazione (min.):	> 480
		Spessore del materiale (mm):	0,35
Protezione degli occhi:			
DPI:	Schermo facciale.		
Caratteristiche:	Marchio «CE» Categoria II. Protettore di occhi e faccia contro spruzzi di liquidi.		
Norme CEN:	EN 165, EN 166, EN 167, EN 168		
Manutenzione:	La visibilità attraverso gli oculari deve essere ottima e pertanto questi elementi devono essere puliti quotidianamente. I protettori devono disinfettarsi periodicamente seguendo le istruzioni del fabbricante. Verificare che le parti mobili lavorino con delicatezza.		
Commenti:	Gli schermi facciali devono avere un campo di visione con una dimensione sulla linea centrale di 150 mm come minimo, in senso verticale dopo essere stati messi sulla montatura.		
Protezione della pelle:			
DPI:	Abbigliamento di protezione.		
Caratteristiche:	Marchio «CE» Categoria II. L'abbigliamento di protezione non deve essere troppo stretto o troppo lento per non interferire nei movimenti dell'utente.		
Norme CEN:	EN 340		
Manutenzione:	Seguire le istruzioni di lavaggio e conservazione fornite dal fabbricante per garantire una protezione invariabile.		
Commenti:	L'abbigliamento di protezione dovrebbe offrire un livello di confort consistente con il livello di protezione che deve garantire contro il rischio contro il quale protegge, con le condizioni ambientali, il livello di attività dell'utente e il tempo d'uso previsto.		

SEZIONE 9: PROPRIETÀ FISICHE E CHIMICHE.

9.1 Informazioni sulle proprietà fisiche e chimiche fondamentali.

Stato fisico: Solid

Colore: Bianco

Odore: Inodore

Soglia olfattiva: Non pertinente/Non disponibile a causa della natura/proprietà del prodotto.

Punto di fusione: 205 °C

Punto di congelamento: Non pertinente/Non disponibile a causa della natura/proprietà del prodotto.

Punto di ebollizione o punto iniziale di ebollizione e intervallo di ebollizione: Non pertinente/Non disponibile a causa della natura/proprietà del prodotto.

Infiammabilità: Non pertinente/Non disponibile a causa della natura/proprietà del prodotto.

Limite inferiore di esplosività: Non pertinente/Non disponibile a causa della natura/proprietà del prodotto.

Limite superiore di esplosività: Non pertinente/Non disponibile a causa della natura/proprietà del prodotto.

- Continua alla prossima pagina. -

SCHEDA DI DATI DI SICUREZZA

(secondo il REGOLAMENTO (UE) 2020/878)

0055-Filnet



Versione 1 Data di compilazione: 1/10/2018

Versione 5 (sostituisce la versione 4) Data di revisione: 09/03/2022

Pagina 6 di 10

Data di stampa: 26/11/2024

Punto di infiammabilità: 100 °C (Stima sulla base delle indicazioni del regolamento (CE) n. 1272/2008)

Temperatura di autoaccensione: Non pertinente/Non disponibile a causa della natura/proprietà del prodotto.

Temperatura di decomposizione: Non pertinente/Non disponibile a causa della natura/proprietà del prodotto.

pH: 1,18 (1%)

Viscosità cinematica: Non pertinente/Non disponibile a causa della natura/proprietà del prodotto.

Solubilità: Non pertinente/Non disponibile a causa della natura/proprietà del prodotto.

Idrosolubilità: 213 g/l

Liposolubilità: Non pertinente/Non disponibile a causa della natura/proprietà del prodotto.

Coefficiente di ripartizione n-ottanolo/acqua (valore logaritmico): Non pertinente/Non disponibile a causa della natura/proprietà del prodotto.

Tensione di vapore: Non pertinente/Non disponibile a causa della natura/proprietà del prodotto.

Densità assoluta: Non pertinente/Non disponibile a causa della natura/proprietà del prodotto.

Densità relativa: 2.12 (20 °C)

Densità di vapore relativa: Non pertinente/Non disponibile a causa della natura/proprietà del prodotto.

Caratteristiche delle particelle: Non pertinente/Non disponibile a causa della natura/proprietà del prodotto.

9.2 Altre informazioni.

Viscosità: Non pertinente/Non disponibile a causa della natura/proprietà del prodotto.

Proprietà esplosive: Non pertinente/Non disponibile a causa della natura/proprietà del prodotto.

Proprietà ossidanti: No applicable

Punto di gocciolamento: Non pertinente/Non disponibile a causa della natura/proprietà del prodotto.

Scintillazione: Non pertinente/Non disponibile a causa della natura/proprietà del prodotto.

SEZIONE 10: STABILITÀ E REATTIVITÀ.

10.1 Reattività.

Il prodotto non comporta pericoli per la sua reattività.

10.2 Stabilità chimica.

Instabile in contatto con:

- Basi.

10.3 Possibilità di reazioni pericolose.

Può prodursi una neutralizzazione in contatto con basi.

10.4 Condizioni da evitare.

- Evitare il contatto con basi.

10.5 Materiali incompatibili.

Evitare i seguenti materiali:

- Basi.

10.6 Prodotti di decomposizione pericolosi.

Dipendendo dalle condizioni di impiego, possono generarsi i seguenti prodotti:

- Vapori o gas corrosivi.

SEZIONE 11: INFORMAZIONI TOSSICOLOGICHE.

MISCELA IRRITANTE. Schizzi negli occhi possono causare irritazione degli stessi.

MISCELA IRRITANTE. Il suo contatto ripetuto o prolungato con la pelle o con le mucose, può causare sintomi irritanti, tali come arrossamento, bolle o dermatite. Alcuni dei sintomi possono non essere immediati. Possono prodursi reazioni allergiche sulla pelle.

11.1 Informazioni sulle classi di pericolo definite nel regolamento (CE) n. 1272/2008.

Il contatto ripetuto o prolungato con il Prodotto, può causare l'eliminazione del sebo della pelle, dando luogo ad una dermatite da contatto non allergica.

Informazioni tossicologiche .

Nome	Tossicità acuta			
	Tipo	Prova	Specie	Valore
acido solfammidico	Orale	L50	Rat	> 2000 mg/kg

- Continua alla prossima pagina. -

SCHEDA DI DATI DI SICUREZZA

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0055-Filnet



Versione 1 Data di compilazione: 1/10/2018

Versione 5 (sostituisce la versione 4) Data di revisione: 09/03/2022

Pagina 7 di 10

Data di stampa: 26/11/2024

N. CAS: 5329-14-6 N. CE: 226-218-8		
	Cutanea	LD50 Rat >2000 mg/kg bw [1] [1] Study report, 2010.
	Inalazione	

a) tossicità acuta;

Dati non concludenti per la classificazione.

b) corrosione/irritazione cutanea;

Prodotto classificato:

Irritanti per la pelle, Categoria 2: Provoca irritazione cutanea.

c) lesioni oculari gravi/irritazioni oculari gravi;

Prodotto classificato:

Irritazione oculare, Categoria 2: Provoca grave irritazione oculare.

d) sensibilizzazione respiratoria o cutanea;

Dati non concludenti per la classificazione.

e) mutagenicità delle cellule germinali;

Dati non concludenti per la classificazione.

f) cancerogenicità;

Dati non concludenti per la classificazione.

g) tossicità per la riproduzione;

Dati non concludenti per la classificazione.

h) tossicità specifica per organi bersaglio (STOT) - esposizione singola;

Dati non concludenti per la classificazione.

i) tossicità specifica per organi bersaglio (STOT) - esposizione ripetuta;

Dati non concludenti per la classificazione.

j) pericolo in caso di aspirazione.

Dati non concludenti per la classificazione.

11.2 Informazioni su altri pericoli.

Proprietà di interferenza con il sistema endocrino

Questo prodotto non contiene componenti con proprietà che alterano il sistema endocrino e hanno un effetto sulla salute umana.

Altre informazioni

Non esistono informazioni disponibili su altri effetti avversi per la salute.

SEZIONE 12: INFORMAZIONI ECOLOGICHE.

12.1 Tossicità.

Nome	Ecotossicità			
	Tipo	Prova	Specie	Valore
acido solfammidico	Pesci	LC50	Pimephales promelas	70.3 mg/l (96 h) [1]
		[1] Aquatic Toxicity of Forty Industrial Chemicals: Testing in Support of Hazardous Substance Spill Prevention Regulation, M.W. CURTIS and C.H. WARD, 1981.		
	Invertebrati acquatici	EC50	Daphnia magna	71.6 mg/l (48 h) [1]
		[1] Study report, 2010.		
	Piante acquatiche	EC50	Desmodesmus subspicatus	48 mg/l (72 h) [1]

- Continua alla prossima pagina. -

SCHEDA DI DATI DI SICUREZZA

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Versione 1 Data di compilazione: 1/10/2018

Versione 5 (sostituisce la versione 4) Data di revisione: 09/03/2022

Pagina 8 di 10

Data di stampa: 26/11/2024

N. CAS: 5329-14-6	N. CE: 226-218-8	[1] Study report, 2010. OECD Guideline 201 (Alga, Growth Inhibition Test)
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12.2 Persistenza e degradabilità.

Non si hanno a disposizione informazioni relative alla biodegradabilità.

Non si hanno a disposizione informazioni relative alla degradabilità.

Non sono disponibili informazioni sulla persistenza e degradabilità del prodotto.

12.3 Potenziale di bioaccumulo.

Non si dispone d'informazione sul Bioaccumulo.

12.4 Mobilità nel suolo.

Non sono disponibili informazioni sulla mobilità nel suolo

È vietato lo smaltimento in fognature o corsi d'acqua.

Evitare la penetrazione nel terreno.

12.5 Risultati della valutazione PBT e vPvB.

Non sono disponibili informazioni sul prodotto PBT e vPvB.

12.6 Proprietà di interferenza con il sistema endocrino.

Questo prodotto non contiene componenti con proprietà che alterano il sistema endocrino e hanno un effetto sull'ambiente.

12.7 Altri effetti avversi.

Non ci sono informazioni su altri effetti negativi per l'ambiente.

SEZIONE 13: CONSIDERAZIONI SULLO SMALTIMENTO.

13.1 Metodi di trattamento dei rifiuti.

È vietato lo smaltimento in fognature o corsi d'acqua. I residui e recipienti vuoti devono manipolarsi ed eliminarsi d'accordo con le legislazioni locale/nazionale vigenti.

Seguire le disposizioni della Direttiva 2008/98/CE relative alla gestione dei rifiuti.

SEZIONE 14: INFORMAZIONI SUL TRASPORTO.

Trasportare seguendo le norme ADR/TPC per il trasporto su strada, le RID per il trasporto per ferrovia, le IMDG per il trasporto via mare e le ICAO/IATA per il trasporto aereo.

Terra: Trasporto stradale: ADR, Trasporto ferroviario: RID.

Documentazione di trasporto: Lettera di porto ed Istruzioni scritte.

Mare: Trasporto nave: IMDG.

Documentazione di trasporto: Conoscenza d'imbarco.

Aria: Trasporto aereo: IATA / ICAO.

Documento di trasporto: Conoscenza aerea.

14.1 Numero ONU o numero ID.

Nº ONU: UN2967

14.2 Designazione ufficiale ONU di trasporto.

Descrizione:

ADR/RID: UN 2967, ACIDO SOLFAMMICO, 8, PG III, (E)

IMDG: UN 2967, ACIDO SOLFAMMICO, 8, PG III

ICAO/IATA: UN 2967, ACIDO SOLFAMMICO, 8, PG III

14.3 Classi di pericolo connesso al trasporto.

Classe: 8

14.4 Gruppo di imballaggio.

Gruppo d'imballaggio: III

- Continua alla prossima pagina. -

SCHEDA DI DATI DI SICUREZZA

(secondo il REGOLAMENTO (UE) 2020/878)

0055-Filnet



Versione 1 Data di compilazione: 1/10/2018

Versione 5 (sostituisce la versione 4) Data di revisione: 09/03/2022

Pagina 9 di 10

Data di stampa: 26/11/2024

14.5 Pericoli per l'ambiente.

Inquinante marino: No

Trasporto navele, FEm -Schede d'emergenza (F – Incendio, S – Spargimenti): F-A,S-B

14.6 Precauzioni speciali per gli utilizzatori.

Etichette: 8



Numero di rischio: 80

ADR LQ: 5 kg

IMDG LQ: 5 kg

ICAO LQ: 5 kg

Disposizioni relative al trasporto di massa in ADR:

VC1 E' autorizzato il trasporto in massa in veicoli telonati, in contenitori telonati o in contenitori per la massa telonati.

VC2 E' autorizzato il trasporto in massa in veicoli coperti, in contenitori specialmente chiusi o in contenitori per la massa chiusi.

AP7 Il trasporto di massa non deve essere effettuato prima che sia completato il carico
Funguere dal punto 6.

Gruppo di segregazione del Codice IMDG: 1 Acidi

14.7 Trasporto marittimo alla rinfusa conformemente agli atti dell'IMO.

Il prodotto non è interessato da navi trasporto alla rinfusa.

SEZIONE 15: INFORMAZIONI SULLA REGOLAMENTAZIONE.

15.1 Disposizioni legislative e regolamentari su salute, sicurezza e ambiente specifiche per la sostanza o la miscela.

Il prodotto non rientra nel campo di applicazione del Regolamento (CE) n. 1005/2009 del Parlamento europeo e del Consiglio, del 16 settembre 2009, sulle sostanze che riducono lo strato di ozono.

Composti organici volatili (COV)

Contenuto di COV (p/p): 0 %

Contenuto di COV: 0 g/l

Classificazione del prodotto in accordo con l'Allegato I della Direttiva 2012/18/EU (SEVESO III): N/A

Il prodotto non viene pregiudicato dal Regolamento (EU) No 528/2012 relativo alla commercializzazione e l'uso dei biocidi.

Il prodotto non viene pregiudicato dal procedimento stabilito nel Regolamento (EU) No 649/2012, relativo all'esportazione e importazione di prodotti chimici pericolosi.

Categoria di inquinante per l'acqua (Germania): WGK 1: Poco pericoloso per l'acqua. (Autoclassificato in base al regolamento AwSV)

15.2 Valutazione della sicurezza chimica.

Non è stata effettuata una valutazione della sicurezza chimica del prodotto.

E' disponibile di uno Scenario di Esposizione del prodotto.

SEZIONE 16: ALTRE INFORMAZIONI.

Codici di classificazione:

Aquatic Chronic 3 : Effetti cronici per l'ambiente acquatico, Categoria 3

- Continua alla prossima pagina. -

SCHEDA DI DATI DI SICUREZZA

(secondo il REGOLAMENTO (UE) 2020/878)

0055-Filnet



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Versione 5 (sostituisce la versione 4) Data di revisione: 09/03/2022

Pagina 10 di 10

Data di stampa: 26/11/2024

Eye Irrit. 2 : Irritazione oculare, Categoria 2
Skin Irrit. 2 : Irritanti per la pelle, Categoria 2

Cambiare riguardanti la versione precedente:

- Modifica di pericoli speciali (SEZIONE 2.3).
- Modifica delle misure antincendio (SEZIONE 5.2).
- Modifica delle misure in caso di rilascio accidentale (SEZIONE 6.1).
- Modifica delle misure in caso di rilascio accidentale (SEZIONE 6.2).
- Modifica degli informazioni sulle proprietà fisiche e chimiche (SEZIONE 9).
- Cambiare degli indicazioni di pericolo (SEZIONE 11.1).
- Modifica della classificazione ADR/IMDG/ICAO/IATA/RID (SEZIONE 14).
- Modifiche delle leggi nazionali (SEZIONE 15.1).
- Aggiunta degli abbreviazioni e acronimi (SEZIONE 16).

Classificazione e procedura utilizzata per derivarla a norma del regolamento (CE) 1272/2008 [CLP] in relazione alle miscele:

Pericoli fisici	Sulla base di dati di sperimentazione
Pericoli per la salute	Metodo di calcolo
Pericoli per l'ambiente	Metodo di calcolo

Si consiglia di offrire formazione di base sulla sicurezza ed igiene sul lavoro per garantire una corretta manipolazione del prodotto.

E' disponibile di uno Scenario di Esposizione del prodotto.

Abbreviature ed acronimi utilizzati:

ADR/RID: Accordo europeo sul trasporto internazionale di merci pericolose in strada.

AwSV: Regolamento relativo agli Impianti per la manipolazione di sostanze pericolose per l'acqua.

CEN: Comitato Europeo di Normalizzazione.

DMEL: Derived Minimal Effect Level, livello di esposizione che corrisponde a un basso rischio, che si deve considerare come rischio minimo tollerabile.

DNEL: Derived No Effect Level, (livello senza effetto) livello di esposizione alla sostanza al di sotto della quale non si prevedono effetti avversi.

EC50: Concentrazione media effettiva.

DPI: Squadra di protezione personale.

IATA: Associazione Internazionale di Trasporto Aereo.

ICAO: Organizzazione internazionale dell'aviazione civile.

IMDG: Codice Marittimo Internazionale di Merci Pericolose.

LC50: Concentrazione letale, 50%.

LD50: Dose letale, 50%.

PNEC: Predicted No Effect Concentration, (concentrazione prevista senza effetto) concentrazione della sostanza sotto la quale non si verificano effetti negativi nel comportamento del medio ambiente.

RID: Regolamento concernente il trasporto internazionale di merci pericolose per ferrovia.

WGK: Classi di pericolo per l'ambiente acquatico.

Principali referenze bibliografiche e fonti di dati:

<http://eur-lex.europa.eu/homepage.html>

<http://echa.europa.eu/>

Regolamento (UE) 2020/878.

Regolamento (CE) No 1907/2006.

Regolamento (UE) No 1272/2008.

Questa scheda di Dati di Sicurezza è stata redatta secondo il REGOLAMENTO (UE) 2020/878 DELLA COMMISSIONE del 18 giugno 2020 recante che modifica l'allegato II del regolamento (CE) n. 1907/2006 del Parlamento europeo e del Consiglio concernente la registrazione, la valutazione, l'autorizzazione e la restrizione delle sostanze chimiche e miscele (REACH).

Le informazioni contenute in questa Scheda Dati di Sicurezza del Prodotto sono basate sulle conoscenze attuali e fornite nel rispetto delle leggi vigenti della CE e nazionali, siccome le condizioni di lavoro dell'utilizzatore sono fuori dalla nostra conoscenza e controllo. Il prodotto non deve utilizzarsi per fini diversi a quelli specificati senza prima ottenere indicazioni scritte sulle sue modalità di utilizzo. È sempre responsabilità dell'utilizzatore prendere le misure appropriate per ottemperare alle disposizioni della legislazione vigente.

The following exposure scenarios have been assessed for the product mentioned above:

1. Exposure scenario title	ES 1: Manufacturing of cleaning and maintenance products, surface treatment products and/or biocidal products
2. Identified uses covered in the Exposure Scenario	
(ES 1 just covers the manufacture or formulation of these end products) Identified Use 1 "Kitchen cleaner, dishwash product" Identified Use 2 "Floor and sanitary cleaner" Identified Use 4 "Oil well cleaner" Identified Use 5 "Metal surface treatment products, e.g. electroplating" Identified Use 6 "pH regulator" Identified Use 7 "Pulp and paper industry as a chloride stabilizer" Identified Use 10 "Cleaning metals and ceramics" Identified Use 11 "Surface disinfectant" Identified Use 12 "Laundry aid, laundry detergent" Identified Use 13 "Polishes and wax blends" Identified Use 14 "Non-metal surface treatment products" Identified Use 15 "Welding and soldering products, flux products" Identified Use 16 "Leather tanning industry for leather finishing" Identified Use 19 "Air care product"	
3. Description of activities/process(es) covered in the Exposure Scenario	
SU10 Formulation (mixing) of preparations and/or re-packaging PC 3 Air care products PC 8 Biocidal products (e.g. Disinfectants, pest control) PC 14 Metal surface treatment products, including galvanic and electroplating products PC 15 Non-metal-surface treatment products PC 20 Products such as pH-regulators, flocculants, precipitants, neutralization agents, other unspecific PC 23 Leather tanning, dye, finishing, impregnation and care products PC 26 Paper and board dye, finishing and impregnation products PC 31 Polishes and wax blends PC 35 Washing and cleaning products (including solvent based products) PC 38 Welding and soldering products, flux products PROC 3 Use in closed batch process (synthesis or formulation) PROC 4 Use in batch and other process (synthesis) where opportunity for exposure arises PROC 5 Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact) PROC 7 Industrial spraying PROC 8a Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities PROC 8b Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities PROC 9 Transfer of substance or preparation into small containers (dedicated filling line, including weighing) PROC 13 Treatment of articles by dipping and pouring PROC 15 Use as laboratory reagent ERC2 Formulation of preparations	
4. Operational conditions	
4.1 Duration of use for which the ES ensures control of risk	Duration of use: >4 h/day (all PROCs)
4.2 Frequency of use for which the ES ensures control of risk	Not restricted
4.3 Amount of use for which the ES ensures control of risk	1000t/y(based on the worst case)
5. Substance properties and use parameters	
5.1 Physical form of product in which the substance is contained	Liquid/solid
5.1a Surface area per amount of article containing the substance (if applicable)	Not applicable
5.2 Concentration of substance in	0-100%

preparation	
5.3 Amount used per time or per activity for which the RMMs, in combination with other operational conditions of use ensure control of risk (if applicable)	Not restricted
6. Other operational conditions determining exposure	
Room volume	≥ 20m ³
Ventilation rate:	not specified
Temperature:	< 60 °C
Water flow rate:	not limited
Other operational conditions:	none
7. Risk Management Measures that, in combination with the operational conditions of use, ensure control of risk related to the different target groups	
7.1.1 Occupational measures	
Data type	Data field
General measure	
Skin contact inadmissible - Touching forbidden	Not to be used without protective gloves and eye protection Immediately eliminate or neutralize spilled solution. Do not inhale aerosols, fumes
Additional instruction,	Clean contaminated protective gloves with flowing water before taking off. Clean or take off protective clothing immediately after contaminating. Examine protective gloves for damage before beginning the activity.
Pour only with small heads (20 cm or less) or let liquid flow on the rim of container (avoidance of splashes)	Valid for all activities/all PROCs
Product-related measures	
Product-related measures	High viscosity adjustment with aids to avoid splashes Delivery only as barrel commodity and/or in the tank car (For all PROC).
Technical measures	Operation temperature: < 60 °C
Organizational measures	
General measures	Handling permissible only after instruction on the dangers. Regular control of the effectiveness of the technical measures, Regular control of the application of the personal measures, (valid for all indicated activities/all above PROCs)
Additional measures	Entrance to production/processing only for technical personnel, Delivery only to the specialized trade. Hold only the quantity necessary for the processing ready.
Local exhaust ventilation required plus good work practise	Not addressed.
Personal protective equipment (PPE)	
	Hand protection: Disposable gloves for brief application Gloves with 8-hour break-through security for longer application, e.g. butyl rubber or nitrile rubber protective index 6, EN 372. Eye protection: Eye protector or goggles (all activities/PROCs), e.g. EN 166. Respiratory protection: Respiratory protection equipment. Body protection: Exposure suit for some activities with significant exposure possibility. Other measures: Take a shower and change clothes after work. Handling permissible only after instruction on the dangers. Regular control of the effectiveness of the technical measures,

	Regular control of the application of the personal measures, (valid for all indicated activities/all above PROCs)
7.1.2 Consumer related measures:	Not applicable for this Exposure Scenario
7.2 Environment related measures	It is recommended that rainwater, sanitary sewage and industrial waste water can be separated from the sewerage and disposed by the sewage disposal apparatus. Neutralize before introducing into open waters (Regular control of the pH value during introduction into open waters). Remainders on application devices with much water. Diluted before discharge when necessary.
8. Waste related measures needed to ensure control of risk at the different life cycle stages of the substances (including preparations or articles at the end of service life)	
The wastes should be disposed of in according to local regulations. Avoid disposing into drainage systems and into the environment directly. The soiled packaging should be disposed of in the same way as the product. Discharges of sulphamic Acid from production sites to sewage treatment plants (STP)/waste water treatment plants and receiving waters are well controlled. Taking into account the existing EU Directives for pH-control for surface water and national regulations to control the pH of waster waters and surface waters is concluded that STPs and surface waters are sufficiently protected with regard to pH changes.	
9. Prediction of exposure resulting from the conditions described above	
The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated. Predicted exposures are not expected to exceed the applicable exposure limits (DNEL as provided above) when the operational conditions/risk management measures described above are implemented. The environmental exposure can be excluded taken into account the risk reduction measures which are already being applied.	
10. Guidance to DU to evaluate whether he works inside the boundaries set by the ES	
Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.	

1. Exposure scenario title		ES 2: Professional use of cleaning and maintenance products, surface treatment products and/or biocidal products
2. Identified uses covered in the Exposure Scenario		
(ES 2 just covers the professional use processes of these end products) Identified Use 1 "Kitchen cleaner, dishwash product" Identified Use 2 "Floor and sanitary cleaner" Identified Use 4 "Oil well cleaner" Identified Use 10 "Cleaning metals and ceramics" Identified Use 11 "Surface disinfectant" Identified Use 12 "Laundry aid, laundry detergent" Identified Use 13 "Polishes and wax blends" Identified Use 14 "Non-metal surface treatment products" Identified Use 19 "Air care product"		
3. Description of activities/process(es) covered in the Exposure Scenario		
SU 22 "Professional uses: Public domain (administration, education, entertainment, services, craftsmen)" SU 2b "Offshore industries" PC 3 "Air care products" PC 8 "Biocidal products (e.g. Disinfectants, pest control)" PC 13 "Fuels" PC 15 "Non-metal-surface treatment products" PC 31 "Polishes and wax blends" PC 35 "Washing and cleaning products (including solvent based products)" PROC 1 "Use in closed process, no likelihood of exposure" PROC 2 "Use in closed, continuous process with occasional controlled exposure" PROC 4 "Use in batch and other process (synthesis) where opportunity for exposure arises" PROC 5 "Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact)" PROC 8a "Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities" PROC 8b "Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities" PROC 9 "Transfer of substance or preparation into small containers (dedicated filling line, including weighing)" PROC 10 "Roller application or brushing" PROC 11 "Non industrial spraying" PROC 13 "Treatment of articles by dipping and pouring" PROC 16 "Using material as fuel sources, limited exposure to unburned product to be expected" PROC 17 "Lubrication at high energy conditions and in partly open process" PROC 19 "Hand-mixing with intimate contact and only PPE available" PROC 20 "Heat and pressure transfer fluids in dispersive, professional use but closed systems" ERC 8a "Wide dispersive indoor use of processing aids in open systems" ERC 8b "Wide dispersive indoor use of reactive substances in open systems" ERC 8d "Wide dispersive outdoor use of processing aids in open systems" ERC 9a "Wide dispersive indoor use of substances in closed systems" ERC 9b "Wide dispersive outdoor use of substances in closed systems"		
4. Operational conditions		
4.1 Duration of use for which the ES ensures control of risk	15 min –1 h/d (all PROCs)	
4.2 Frequency of use for which the ES ensures control of risk	Not restricted	
4.3 Amount of use for which the ES ensures control of risk	7 - 1000 t/y	
5. Substance properties and use parameters		
5.1 Physical form of product in which the substance is contained	3%-15% solution	
5.1a Surface area per amount of article containing the substance (if	Not applicable	

applicable)	
5.2 Concentration of substance in preparation	3-15%
5.3 Amount used per time or per activity for which the RMMs, in combination with other operational conditions of use ensure control of risk (if applicable)	Not restricted
6. Other operational conditions determining exposure	
Room volume	≥ 20m ³
Ventilation rate:	not specified
Temperature:	<60 °C
Water flow rate:	not limited
Other operational conditions:	none
7. Risk Management Measures that, in combination with the operational conditions of use, ensure control of risk related to the different target groups	
7.1.1 Occupational measures	
Data type	Data field
General measure	
Skin contact inadmissible - Touching forbidden	Not to be used without protective gloves and eye protection Immediately eliminate or neutralize spilled solution, Do not inhale aerosols, fumes
Additional instruction,	Clean contaminated protective gloves with flowing water before taking off. Clean or take off protective clothing immediately after contaminating. Examine protective gloves for damage before beginning the activity.
Pour only with small heads (20 cm or less) or let liquid flow on the rim of container (avoidance of splashes)	Valid for all activities/all PROCs
Product-related measures	
Product-related measures	High viscosity adjustment with aids to avoid splashes Delivery only as barrel commodity and/or in the tank car (For all PROC).
Technical measures	Operation temperature: < 60 °C
Organizational measures	
General measures	Handling permissible only after instruction on the dangers. Regular control of the effectiveness of the technical measures, Regular control of the application of the personal measures, (valid for all indicated activities/all above PROCs)
Additional measures	Entrance to production/processing only for technical personnel, Delivery only to the specialized trade. Hold only the quantity necessary for the processing ready.
Local exhaust ventilation required plus good work practise	Not addressed. Local exhaust ventilation is recommended.
Personal protective equipment (PPE)	
	Hand protection: Gloves with 8-hour break-through security for longer application, e.g. butyl rubber or nitrile rubber protective index 6, EN 372. Eye protection: Eye protector or goggles (all activities/PROCs), e.g. EN 166. Respiratory protection: Respiratory protection equipment. Body protection: Exposure suit for some activities with significant exposure possibility. Other measures: Take a shower and change clothes after work. Handling permissible only after instruction on the dangers. Regular control of the effectiveness of the technical measures, Regular control of the application of the personal measures, (valid for all

	indicated activities/all above PROCs)
7.1.2 Consumer related measures:	Not applicable for this Exposure Scenario
7.2 Environment related measures	Do not discharge to water directly. Diluted when necessary. Remainders on application devices with much water. No special information is available on onsite waste treatment. As the sulphamic acid may be recycled, reused or disposed by the manufacture or their downstream users, the discharge to wastes can be negligible.
8. Waste related measures needed to ensure control of risk at the different life cycle stages of the substances (including preparations or articles at the end of service life)	
The wastes should be disposed of in according to local regulations. Avoid disposing into drainage systems and into the environment directly. The soiled packaging should be disposed of in the same way as the product.	
9. Prediction of exposure resulting from the conditions described above	
The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated. Predicted exposures are not expected to exceed the applicable exposure limits (DNEL as provided above) when the operational conditions/risk management measures described above are implemented. Environmental exposure can be excluded taken into account the risk reduction measures which are already being applied.	
10. Guidance to DU to evaluate whether he works inside the boundaries set by the ES	
Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.	

1. Exposure scenario title	ES 3: Industrial use of cleaning and maintenance products, surface treatment products and/or biocidal products
2. Identified uses covered in the Exposure Scenario	
(ES 3 just covers the use processes of these end products in industrial sites) Identified Use 5 "Metal surface treatment products, e.g. electroplating" Identified Use 6 "pH regulator" Identified Use 7 "Pulp and paper industry as a chloride stabilizer" Identified Use 10 "Cleaning metals and ceramics" Identified Use 11 "Surface disinfectant" Identified Use 12 "Laundry aid, laundry detergent" Identified Use 15 "Welding and soldering products, flux products" Identified Use 16 "Leather tanning industry for leather finishing"	
3. Description of activities/process(es) covered in the Exposure Scenario	
SU 3 "Industrial uses: Uses of substance as such or in preparations at industrial sites " SU 5 "Manufacture of textiles, leather, fur" SU 6b "Manufacture of pulp, paper and paper products" SU 8 "Manufacture of bulk, large scale chemicals (including petroleum products)" SU 15 "Manufacture of fabricated metal products, except machinery and equipment" PC 8 "Biocidal products (e.g. Disinfectants, pest control)" PC 14 "Metal surface treatment products, including galvanic and electroplating products" PC 20 "Products such as pH-regulators, flocculants, precipitants, neutralization agents, other unspecific" PC 23 "Leather tanning, dye, finishing, impregnation and care products" PC 26 "Paper and board dye, finishing and impregnation products" PC 35 "Washing and cleaning products (including solvent based products)" PC 38 "Welding and soldering products, flux products" PROC 2 "Use in closed, continuous process with occasional controlled exposure" PROC 3 "Use in closed batch process (synthesis or formulation)" PROC 4 "Use in batch and other process (synthesis) where opportunity for exposure arises" PROC 5 "Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact)" PROC 7 "Industrial spraying" PROC 8a "Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities" PROC 8b "Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities" PROC 9 "Transfer of substance or preparation into small containers (dedicated filling line, including weighing)" PROC 10 "Roller application or brushing" PROC 13 "Treatment of articles by dipping and pouring" PROC 15 "Use as laboratory reagent" PROC 16 "Using material as fuel sources, limited exposure to unburned product to be expected" PROC 19 "Hand-mixing with intimate contact and only PPE available" PROC 25 "Other hot work operations with metals" ERC 4 "Industrial use of processing aids" ERC 6b "Industrial use of reactive processing aids"	
4. Operational conditions	
4.1 Duration of use for which the ES ensures control of risk	0.25 - 1.25 h/d
4.2 Frequency of use for which the ES ensures control of risk	Not restricted
4.3 Amount of use for which the ES ensures control of risk	100 - 750 t/y
5. Substance properties and use parameters	
5.1 Physical form of product in which the substance is contained	Liquid
5.1a Surface area per amount of article containing the substance (if applicable)	Not applicable

5.2	Concentration of substance in use	100%
5.3	Amount used per time or per activity for which the RMMs, in combination with other operational conditions of use ensure control of risk (if applicable)	Not specified
6. Other operational conditions determining exposure		
	Room volume	≥ 20 m ³
	Ventilation rate:	not specified
	Concentration of substance in preparation	3 % - 15 %
	Temperature:	not restricted
	Water flow rate:	not limited
	Other operational conditions:	none
7. Risk Management Measures that, in combination with the operational conditions of use, ensure control of risk related to the different target groups		
7.1.1	Occupational measures	
Data type		Data field
General measure		
	Skin contact inadmissible - Touching forbidden	Not to be used without protective gloves and eye protection Immediately eliminate or neutralize spilled solution, Do not inhale aerosols, fumes
	Additional instruction,	Clean contaminated protective gloves with flowing water before taking off. Clean or take off protective clothing immediately after contaminating. Examine protective gloves for damage before beginning the activity.
	Pour only with small heads (20 cm or less) or let liquid flow on the rim of container (avoidance of splashes)	Valid for all activities/all PROCs
Product-related measures		
	Product-related measures	High viscosity adjustment with aids to avoid splashes Delivery only as barrel commodity and/or in the tank car (For all PROC).
	Technical measures	Operation temperature: < 60 °C
Organizational measures		
	General measures	Handling permissible only after instruction on the dangers. Regular control of the effectiveness of the technical measures, Regular control of the application of the personal measures, (valid for all indicated activities/all above PROCs)
	Additional measures	Entrance to production/processing only for technical personnel, Delivery only to the specialized trade. Hold only the quantity necessary for the processing ready.
	Local exhaust ventilation required plus good work practise	Not addressed. Local exhaust ventilation is recommended.
Personal protective equipment (PPE)		
		Hand protection: Gloves with 8-hour break-through security for longer application, e.g. butyl rubber or nitrile rubber protective index 6, EN 372. Eye protection: Eye protector or goggles (all activities/PROCs), e.g. EN 166. Respiratory protection: Respiratory protection equipment. Body protection: Exposure suit for some activities with significant exposure possibility. Other measures: Take a shower and change clothes after work. Handling permissible only after instruction on the dangers. Regular control of the effectiveness of the technical measures,

	Regular control of the application of the personal measures, (valid for all indicated activities/all above PROCs)
7.1.2 Consumer related measures:	Not applicable for this Exposure Scenario
7.2 Environment related measures	It is recommended that rainwater, sanitary sewage and industrial waste water can be separated from the sewerage and disposed by the sewage disposal apparatus. Neutralize before introducing into open waters (Regular control of the pH value during introduction into open waters). Remainders on application devices with much water. Diluted before discharge when necessary.
8. Waste related measures needed to ensure control of risk at the different life cycle stages of the substances (including preparations or articles at the end of service life)	
The wastes should be disposed of in according to local regulations. Avoid disposing into drainage systems and into the environment directly. The soiled packaging should be disposed of in the same way as the product. Discharges of sulphamic acid from production sites to sewage treatment plants (STP)/waste water treatment plants and receiving waters are well controlled. Taking into account the existing EU Directives for pH-control for surface water and national regulations to control the pH of waster waters and surface waters is concluded that STPs and surface waters are sufficiently protected with regard to pH changes.	
9. Prediction of exposure resulting from the conditions described above	
The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated. Predicted exposures are not expected to exceed the applicable exposure limits (DNEL as provided above) when the operational conditions/risk management measures described above are implemented. Environmental exposure can be excluded taken into account the risk reduction measures which are already being applied.	
10. Guidance to DU to evaluate whether he works inside the boundaries set by the ES	
Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.	

1. Exposure scenario title	ES 4: Consumer use of cleaning and maintenance products
2. Identified uses covered in the Exposure Scenario	
(ES 4 just covers the dispersive use processes of these end products) Identified Use 1 "Kitchen cleaner, dishwash product" Identified Use 2 "Floor and sanitary cleaner" Identified Use 11 "Surface disinfectant" Identified Use 12 "Laundry aid, laundry detergent"	
3. Description of activities/process(es) covered in the Exposure Scenario	
SU 20 "Health services" SU 21 "Consumer uses: Private households (=general public=consumers)" SU 23 "Electricity, steam, gas water supply and sewage treatment" PC 8 "Biocidal products (e.g. Disinfectants, pest control)" PC 35 "Washing and cleaning products (including solvent based products)" ERC 8a "Wide dispersive indoor use of processing aids in open systems" ERC 8b "Wide dispersive indoor use of reactive substances in open systems"	
4. Operational conditions	
4.1 Duration of use for which the ES ensures control of risk	Duration of use: not specified
4.2 Frequency of use for which the ES ensures control of risk	Frequency of use: 1 event / week
4.3 Amount of use for which the ES ensures control of risk	100 - 1000 t/y use within entire EU
5. Substance properties and use parameters	
5.1 Physical form of product in which the substance is contained	Liquid
5.1a Surface area per amount of article containing the substance (if applicable)	Not applicable
5.2 Concentration of substance in preparation	< 8%
5.3 Amount used per time or per activity for which the RMMs, in combination with other operational conditions of use ensure control of risk (if applicable)	Not specified
6. Other operational conditions determining exposure	
Room volume Inhalation rate: Temperature: Contact area: Other operational conditions:	$\geq 20\text{m}^3$ $1.37\text{ m}^3 / \text{hour}$ Unless otherwise stated assumes use at ambient temperatures 1000 cm^2 Covers use under typical household ventilation.
7. Risk Management Measures that, in combination with the operational conditions of use, ensure control of risk related to the different target groups	
7.1.1 Occupational measures	Not applicable for this Exposure Scenario
7.1.2 Consumer related measures:	Clean contaminated protective gloves with flowing water before taking off. Handling permissible only after instruction on the dangers. Keep away from children.
Personal protective equipment (PPE)	Direct contact with cleaning agents is not advised. Gloves can be used, e.g. butyl rubber or nitrile rubber protective index 6, EN 372
7.2 Environment related measures	Not specified.
8. Waste related measures needed to ensure control of risk at the different life cycle stages of the substances (including preparations or articles at the end of service life)	

The wastes should be disposed of in according to local regulations. The soiled packaging should be disposed of in the same way as the product.	
9.	Prediction of exposure resulting from the conditions described above
The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated. Predicted exposures are not expected to exceed the applicable exposure limits (DNEL as provided above) when the operational conditions/risk management measures described above are implemented. Environmental exposure can be excluded taken into account the risk reduction measures which are already being applied.	
10.	Guidance to DU to evaluate whether he works inside the boundaries set by the ES
Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.	

1. Exposure scenario title	ES 5: Industrial use of sulphamic acid as foam cleaner in food process
2. Identified uses covered in the Exposure Scenario	
(ES 5 just covers the general use processes of this end product generated in the industrial sites) Identified Use 3 "Food process cleaner, foam cleaner"	
3. Description of activities/process(es) covered in the Exposure Scenario	
SU 3 "Industrial uses: Uses of substance as such or in preparations at industrial sites" PC 35 "Washing and cleaning products (including solvent based products)" PROC 1 "Use in closed process, no likelihood of exposure" PROC 4 "Use in batch and other process (synthesis) where opportunity for exposure arises" PROC 7 "Industrial spraying" PROC 8a "Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities" PROC 8b "Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities" PROC 11 "Non industrial spraying" PROC 13 "Treatment of articles by dipping and pouring" ERC 4 "Industrial use of processing aids"	
4. Operational conditions	
4.1 Duration of use for which the ES ensures control of risk	Duration of use: < 8 h/day (all PROCs)
4.2 Frequency of use for which the ES ensures control of risk	Not restricted
4.3 Amount of use for which the ES ensures control of risk	305 t/y
5. Substance properties and use parameters	
5.1 Physical form of product in which the substance is contained	Liquid
5.1a Surface area per amount of article containing the substance (if applicable)	Not applicable
5.2 Concentration of substance in preparation	Not specified
5.3 Amount used per time or per activity for which the RMMs, in combination with other operational conditions of use ensure control of risk (if applicable)	Not specified
6. Other operational conditions determining exposure	
Room volume	≥ 20m ³
Ventilation rate:	not specified
Temperature:	not restricted
Water flow rate:	not limited
Other operational conditions:	none
7. Risk Management Measures that, in combination with the operational conditions of use, ensure control of risk related to the different target groups	
7.1.1 Occupational measures	
Data type	Data field
General measure	
Skin contact inadmissible - Touching forbidden	Not to be used without protective gloves and eye protection Immediately eliminate or neutralize spilled solution, Do not inhale aerosols, fumes
Additional instruction,	Clean contaminated protective gloves with flowing water before taking off. Clean or take off protective clothing immediately after contaminating.

	Examine protective gloves for damage before beginning the activity.
Pour only with small heads (20 cm or less) or let liquid flow on the rim of container (avoidance of splashes)	Valid for all activities/all PROCs
Product-related measures	
Product-related measures	High viscosity adjustment with aids to avoid splashes. Delivery only as barrel commodity and/or in the tank car (For all PROC).
Technical measures	Operation temperature: < 60 °C
Organizational measures	
General measures	Handling permissible only after instruction on the dangers. Regular control of the effectiveness of the technical measures, Regular control of the application of the personal measures, (valid for all indicated activities/all above PROCs)
Additional measures	Entrance to production/processing only for technical personnel, Delivery only to the specialized trade. Hold only the quantity necessary for the processing ready.
Local exhaust ventilation required plus good work practise	Local exhaust ventilation is recommended.
Personal protective equipment (PPE)	
	Hand protection: Gloves with 8-hour break-through security for longer application, e.g. butyl rubber or nitrile rubber protective index 6, EN 372. Eye protection: Eye protector or goggles (all activities/PROCs), e.g. EN 166. Respiratory protection: Respiratory protection equipment. Body protection: Exposure suit for some activities with significant exposure possibility. Other measures: Take a shower and change clothes after work. Handling permissible only after instruction on the dangers. Regular control of the effectiveness of the technical measures, Regular control of the application of the personal measures, (valid for all indicated activities/all above PROCs)
7.1.2 Consumer related measures:	Not applicable for this Exposure Scenario
7.2 Environment related measures	It is recommended that rainwater, sanitary sewage and industrial waste water can be separated from the sewerage and disposed by the sewage disposal apparatus. Neutralize before introducing into open waters (Regular control of the pH value during introduction into open waters). Remainders on application devices with much water. Diluted before discharge when necessary.
8. Waste related measures needed to ensure control of risk at the different life cycle stages of the substances (including preparations or articles at the end of service life)	
The wastes should be disposed of in according to local regulations. Avoid disposing into drainage systems and into the environment directly. The soiled packaging should be disposed of in the same way as the product. Discharges of sulphamic acid from production to sewage treatment plants (STP)/waste water treatment plants and receiving waters are well controlled.	
9. Prediction of exposure resulting from the conditions described above	
The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated. Predicted exposures are not expected to exceed the applicable exposure limits (DNEL as provided above) when the operational conditions/risk management measures described above are implemented. Environmental exposure can be excluded taken into account the risk reduction measures which are already being applied.	
10. Guidance to DU to evaluate whether he works inside the boundaries set by the ES	
Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.	

1. Exposure scenario title	ES 6: Industrial use of sulphamic acid for manufacture of urea-formaldehyde resins	
2. Identified uses covered in the Exposure Scenario		
(ES 6 just cover the industrial use of this end product) Identified Use 8 "Coagulator for urea-formaldehyde resins"		
3. Description of activities/process(es) covered in the Exposure Scenario		
SU 8 "Manufacture of bulk, large scale chemicals (including petroleum products)" PC 32 "Polymer preparations and compounds" PROC 4 "Use in batch and other process (synthesis) where opportunity for exposure arises" PROC 5 "Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact)" PROC 8a "Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities" PROC 8b "Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities" PROC 15 "Use as laboratory reagent" ERC 1 "Production of chemicals" ERC2 "Formulation of preparations" ERC 6d "Production of resins/rubbers"		
4. Operational conditions		
4.1 Duration of use for which the ES ensures control of risk	Duration of use: < 8 h/day (all PROCs)	
4.2 Frequency of use for which the ES ensures control of risk	Not restricted	
4.3 Amount of use for which the ES ensures control of risk	780 t/y	
5. Substance properties and use parameters		
5.1 Physical form of product in which the substance is contained	Liquid/solid	
5.1a Surface area per amount of article containing the substance (if applicable)	Not applicable	
5.2 Concentration of substance in preparation	Not specified	
5.3 Amount used per time or per activity for which the RMMs, in combination with other operational conditions of use ensure control of risk (if applicable)	Not specified	
6. Other operational conditions determining exposure		
Room volume	$\geq 20 \text{ m}^3$	
Ventilation rate:	not specified	
Temperature:	< 60 °C	
Water flow rate:	not limited	
Other operational conditions:	none	
7. Risk Management Measures that, in combination with the operational conditions of use, ensure control of risk related to the different target groups		
7.1.1 Occupational measures		
Data type	Data field	
General measure		
Skin contact inadmissible - Touching forbidden	Not to be used without protective gloves and eye protection Immediately eliminate or neutralize spilled solution, Do not inhale aerosols, fumes	
Additional instruction,	Clean contaminated protective gloves with flowing water before taking off. Clean or take off protective clothing immediately after contaminating.	

	Examine protective gloves for damage before beginning the activity.
Pour only with small heads (20 cm or less) or let liquid flow on the rim of container (avoidance of splashes)	Valid for all activities/all PROCs
Product-related measures	
Product-related measures	High viscosity adjustment with aids to avoid splashes. Delivery only as barrel commodity and/or in the tank car (For all PROC).
Technical measures	Operation temperature: < 60 °C
Organizational measures	
General measures	Handling permissible only after instruction on the dangers. Regular control of the effectiveness of the technical measures, Regular control of the application of the personal measures, (valid for all indicated activities/all above PROCs)
Additional measures	Entrance to production/processing only for technical personnel, Delivery only to the specialized trade. Hold only the quantity necessary for the processing ready.
Local exhaust ventilation required plus good work practise	Local exhaust ventilation is recommended.
Personal protective equipment (PPE)	
	Hand protection: Gloves with 8-hour break-through security for longer application, e.g. butyl rubber or nitrile rubber protective index 6, EN 372. Eye protection: Eye protector or goggles (all activities/PROCs), e.g. EN 166. Respiratory protection: Respiratory protection equipment. Body protection: Exposure suit for some activities with significant exposure possibility. Other measures: Take a shower and change clothes after work. Handling permissible only after instruction on the dangers. Regular control of the observance of the instructions - sanctioning for offence, Regular control of the effectiveness of the technical measures, Regular control of the application of the personal measures, (valid for all indicated activities/all above PROCs)
7.1.2 Consumer related measures:	Not applicable for this Exposure Scenario
7.2 Environment related measures	It is recommended that rainwater, sanitary sewage and industrial waste water can be separated from the sewerage and disposed by the sewage disposal apparatus. Neutralize before introducing into open waters (Regular control of the pH value during introduction into open waters). Remainders on application devices with much water. Diluted before discharge when necessary.
8. Waste related measures needed to ensure control of risk at the different life cycle stages of the substances (including preparations or articles at the end of service life)	
The wastes should be disposed of in according to local regulations. Avoid disposing into drainage systems and into the environment directly. The soiled packaging should be disposed of in the same way as the product. Discharges of sulphamic acid from production to sewage treatment plants (STP)/waste water treatment plants and receiving waters are well controlled.	
9. Prediction of exposure resulting from the conditions described above	
The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated. Predicted exposures are not expected to exceed the applicable exposure limits (DNEL as provided above) when the operational conditions/risk management measures described above are implemented. Environmental exposure can be excluded taken into account the risk reduction measures which are already being applied.	
10. Guidance to DU to evaluate whether he works inside the boundaries set by the ES	
Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.	

1. Exposure scenario title	ES 7: Industrial use of sulphamic acid as nitrite remover in dye and pigment manufacture
2. Identified uses covered in the Exposure Scenario (ES 7 just covers the industrial use process for this end product) Identified Use 9 "Nitrite remover in dye and pigment manufacture"	
3. Description of activities/process(es) covered in the Exposure Scenario SU 3 "Industrial uses: Uses of substance as such or in preparations at industrial sites" PC 34 "Textile dyes, finishing and impregnating products" PROC 5 "Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact)" ERC2 "Formulation of preparations" ERC 4 "Industrial use of processing aids"	
4. Operational conditions	
4.1 Duration of use for which the ES ensures control of risk	Duration of use: > 4 h/day (all PROCs)
4.2 Frequency of use for which the ES ensures control of risk	Not restricted
4.3 Amount of use for which the ES ensures control of risk	60 t/y
5. Substance properties and use parameters	
5.1 Physical form of product in which the substance is contained	Liquid
5.1a Surface area per amount of article containing the substance (if applicable)	Not applicable
5.2 Concentration of substance in preparation	Not specified
5.3 Amount used per time or per activity for which the RMMs, in combination with other operational conditions of use ensure control of risk (if applicable)	Not specified
6. Other operational conditions determining exposure	
Room volume Ventilation rate: Temperature: Water flow rate: Other operational conditions:	≥ 20m ³ not specified not restricted not limited none
7. Risk Management Measures that, in combination with the operational conditions of use, ensure control of risk related to the different target groups	
7.1.1 Occupational measures	
Data type	Data field
General measure	
Skin contact inadmissible - Touching forbidden	Not to be used without protective gloves and eye protection Immediately eliminate or neutralize spilled solution, Do not inhale aerosols, fumes
Additional instruction,	Clean contaminated protective gloves with flowing water before taking off. Clean or take off protective clothing immediately after contaminating. Examine protective gloves for damage before beginning the activity.
Pour only with small heads (20 cm or less) or let liquid flow on the rim of container (avoidance of splashes)	Valid for all activities/all PROCs
Product-related measures	

Product-related measures	High viscosity adjustment with aids to avoid splashes. Delivery only as barrel commodity and/or in the tank car (For all PROC).
Technical measures	Operation temperature: < 60 °C
Organizational measures	
General measures	Handling permissible only after instruction on the dangers. Regular control of the effectiveness of the technical measures, Regular control of the application of the personal measures, (valid for all indicated activities/all above PROCs)
Additional measures	Entrance to production/processing only for technical personnel, Delivery only to the specialized trade. Hold only the quantity necessary for the processing ready.
Local exhaust ventilation required plus good work practise	Local exhaust ventilation is recommended.
Personal protective equipment (PPE)	
	Hand protection: Gloves with 8-hour break-through security for longer application, e.g. butyl rubber or nitrile rubber protective index 6, EN 372. Eye protection: Eye protector or goggles (all activities/PROCs), e.g. EN 166. Respiratory protection: Respiratory protection equipment. Body protection: Exposure suit for some activities with significant exposure possibility. Other measures: Take a shower and change clothes after work. Handling permissible only after instruction on the dangers. Regular control of the effectiveness of the technical measures, Regular control of the application of the personal measures, (valid for all indicated activities/all above PROCs)
7.1.2 Consumer related measures:	Not applicable for this Exposure Scenario
7.2 Environment related measures	It is recommended that rainwater, sanitary sewage and industrial waste water can be separated from the sewerage and disposed by the sewage disposal apparatus. Neutralize before introducing into open waters (Regular control of the pH value during introduction into open waters). Remainders on application devices with much water. Diluted before discharge when necessary.
8. Waste related measures needed to ensure control of risk at the different life cycle stages of the substances (including preparations or articles at the end of service life)	
The wastes should be disposed of in according to local regulations. Avoid disposing into drainage systems and into the environment directly. The soiled packaging should be disposed of in the same way as the product. Discharges of sulphamic acid from production to sewage treatment plants (STP)/waste water treatment plants and receiving waters are well controlled.	
9. Prediction of exposure resulting from the conditions described above	
The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated. Predicted exposures are not expected to exceed the applicable exposure limits (DNEL as provided above) when the operational conditions/risk management measures described above are implemented. Environmental exposure can be excluded taken into account the risk reduction measures which are already being applied.	
10. Guidance to DU to evaluate whether he works inside the boundaries set by the ES	
Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.	

1. Exposure scenario title	ES 8: Professional use of sulphamic acid as plasticizer in production of thermosetting plastics (e.g. phenolics)
2. Identified uses covered in the Exposure Scenario	
(ES 8 just covers the industrial use process of Sulfamic acid as Plasticizer) Identified Use 17 "Plasticizer"	
3. Description of activities/process(es) covered in the Exposure Scenario	
SU 22 "Professional uses: Public domain (administration, education, entertainment, services, craftsmen)" PC 32 "Polymer preparations and compounds" PROC 2 "Use in closed, continuous process with occasional controlled exposure" PROC 8a "Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities" PROC 8b "Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities" PROC 10 "Roller application or brushing" PROC 11 "Non industrial spraying" PROC 16 "Using material as fuel sources, limited exposure to unburned product to be expected" PROC 17 "Lubrication at high energy conditions and in partly open process" PROC 20 "Heat and pressure transfer fluids in dispersive, professional use but closed systems" ERC 8a "Wide dispersive indoor use of processing aids in open systems" ERC 8d "Wide dispersive outdoor use of processing aids in open systems" ERC 9a "Wide dispersive indoor use of substances in closed systems" ERC 9b "Wide dispersive outdoor use of substances in closed systems"	
4. Operational conditions	
4.1 Duration of use for which the ES ensures control of risk	No data available
4.2 Frequency of use for which the ES ensures control of risk	Not specified
4.3 Amount of use for which the ES ensures control of risk	No data available
5. Substance properties and use parameters	
5.1 Physical form of product in which the substance is contained	Liquid/solid
5.1a Surface area per amount of article containing the substance (if applicable)	Not applicable
5.2 Concentration of substance in preparation	Not specified
5.3 Amount used per time or per activity for which the RMMs, in combination with other operational conditions of use ensure control of risk (if applicable)	Not specified
6. Other operational conditions determining exposure	
Room volume Ventilation rate: Temperature: Water flow rate: Other operational conditions:	≥ 20m ³ not specified < 60 °C not limited none
7. Risk Management Measures that, in combination with the operational conditions of use, ensure control of risk related to the different target groups	
7.1.1 Occupational measures	
Data type	Data field
General measure	
Skin contact inadmissible - Touching forbidden	Not to be used without protective gloves and eye protection Immediately eliminate or neutralize spilled solution,

	Do not inhale aerosols, fumes
Additional instruction,	Clean contaminated protective gloves with flowing water before taking off. Clean or take off protective clothing immediately after contaminating. Examine protective gloves for damage before beginning the activity.
Pour only with small heads (20 cm or less) or let liquid flow on the rim of container (avoidance of splashes)	Valid for all activities/all PROCs
Product-related measures	
Product-related measures	High viscosity adjustment with aids to avoid splashes. Delivery only as barrel commodity and/or in the tank car (For all PROC).
Technical measures	Operation temperature: < 60 °C
Organizational measures	
General measures	Handling permissible only after instruction on the dangers. Regular control of the effectiveness of the technical measures, Regular control of the application of the personal measures, (valid for all indicated activities/all above PROCs)
Additional measures	Entrance to production/processing only for technical personnel, Delivery only to the specialized trade. Hold only the quantity necessary for the processing ready.
Local exhaust ventilation required plus good work practise	Local exhaust ventilation is recommended.
Personal protective equipment (PPE)	
	Hand protection: Gloves with 8-hour break-through security for longer application, e.g. butyl rubber or nitrile rubber protective index 6, EN 372. Eye protection: Eye protector or goggles (all activities/PROCs), e.g. EN 166. Respiratory protection: Respiratory protection equipment. Body protection: Exposure suit for some activities with significant exposure possibility. Other measures: Take a shower and change clothes after work. Handling permissible only after instruction on the dangers. Regular control of the effectiveness of the technical measures, Regular control of the application of the personal measures, (valid for all indicated activities/all above PROCs)
7.1.2 Consumer related measures:	Not applicable for this Exposure Scenario
7.2 Environment related measures	Do not discharge to water directly. Diluted when necessary. Remainders on application devices with much water. The waste gas should not be discharged to the air directly. No special information is available on onsite waste treatment. As the sulphamic acid may be recycled, reused or disposed by the manufacture or their downstream users, the discharge to wastes can be negligible. Recovery of sludge for agriculture or horticulture is forbidden.
8. Waste related measures needed to ensure control of risk at the different life cycle stages of the substances (including preparations or articles at the end of service life)	
The wastes should be disposed of in according to local regulations. Avoid disposing into drainage systems and into the environment directly. The soiled packaging should be disposed of in the same way as the product.	
9. Prediction of exposure resulting from the conditions described above	
The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated. Predicted exposures are not expected to exceed the applicable exposure limits (DNEL as provided above) when the operational conditions/risk management measures described above are implemented. Environmental exposure can be excluded taken into account the risk reduction measures which are already being applied.	

10. Guidance to DU to evaluate whether he works inside the boundaries set by the ES
Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

1. Exposure scenario title	ES 9: Industrial use of sulphamic acid for synthesis of sweeteners
Identified uses covered in the Exposure Scenario	
(ES 9 just covers the industrial use of the sulphamic acid in synthesis of sweeteners) Identified Use 18: "Synthesis of sweeteners"	
3. Description of activities/process(es) covered in the Exposure Scenario	
SU 4 "Manufacture of food products" PC 19 "Intermediate" PROC 3 "Use in closed batch process (synthesis or formulation)" ERC 1 "Production of chemicals"	
4. Operational conditions	
4.1 Duration of use for which the ES ensures control of risk	Not specified
4.2 Frequency of use for which the ES ensures control of risk	Not specified
4.3 Amount of use for which the ES ensures control of risk	1000 t/y
5. Substance properties and use parameters	
5.1 Physical form of product in which the substance is contained	Solid
5.1a Surface area per amount of article containing the substance (if applicable)	Not applicable
5.2 Concentration of substance in preparation	Not specified
5.3 Amount used per time or per activity for which the RMMs, in combination with other operational conditions of use ensure control of risk (if applicable)	Not specified
6. Other operational conditions determining exposure	
Room volume	$\geq 20 \text{ m}^3$
Ventilation rate:	not specified
Temperature:	$< 60 \text{ }^\circ\text{C}$
Water flow rate:	not limited
Other operational conditions:	none
7. Risk Management Measures that, in combination with the operational conditions of use, ensure control of risk related to the different target groups	
7.1.1 Occupational measures	
Data type	Data field
General measure	
Skin contact inadmissible - Touching forbidden	Not to be used without protective gloves and eye protection Immediately eliminate or neutralize spilled solution, Do not inhale aerosols, fumes
Additional instruction,	Clean contaminated protective gloves with flowing water before taking off. Clean or take off protective clothing immediately after contaminating. Examine protective gloves for damage before beginning the activity.
Pour only with small heads (20 cm or less) or let liquid flow on the rim of container (avoidance of splashes)	Valid for all activities/all PROCs
Product-related measures	
Product-related measures	High viscosity adjustment with aids to avoid splashes. Delivery only as barrel commodity and/or in the tank car (For all PROC).
Technical measures	Operation temperature: $< 60 \text{ }^\circ\text{C}$

Organizational measures	
General measures	Handling permissible only after instruction on the dangers. Regular control of the effectiveness of the technical measures, Regular control of the application of the personal measures, (valid for all indicated activities/all above PROCs)
Additional measures	Entrance to production/processing only for technical personnel, Delivery only to the specialized trade. Hold only the quantity necessary for the processing ready.
Local exhaust ventilation required plus good work practise	Local exhaust ventilation is recommended.
Personal protective equipment (PPE)	
	Hand protection: Gloves with 8-hour break-through security for longer application, e.g. butyl rubber or nitrile rubber protective index 6, EN 372. Eye protection: Eye protector or goggles (all activities/PROCs), e.g. EN 166. Respiratory protection: Respiratory protection equipment. Body protection: Exposure suit for some activities with significant exposure possibility. Other measures: Take a shower and change clothes after work. Handling permissible only after instruction on the dangers. Regular control of the effectiveness of the technical measures, Regular control of the application of the personal measures, (valid for all indicated activities/all above PROCs)
7.1.2 Consumer related measures:	Not applicable for this Exposure Scenario
7.2 Environment related measures	Do not discharge to water directly. Diluted when necessary. Remainders on application devices with much water. The waste gas should not be discharged to the air directly. No special information is available on onsite waste treatment. As the sulphamic acid may be recycled, reused or disposed by the manufacture or their downstream users, the discharge to wastes can be negligible. Recovery of sludge for agriculture or horticulture is forbidden.
8. Waste related measures needed to ensure control of risk at the different life cycle stages of the substances (including preparations or articles at the end of service life)	
The wastes should be disposed of in according to local regulations. Avoid disposing into drainage systems and into the environment directly. The soiled packaging should be disposed of in the same way as the product.	
9. Prediction of exposure resulting from the conditions described above	
The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated. Predicted exposures are not expected to exceed the applicable exposure limits (DNEL as provided above) when the operational conditions/risk management measures described above are implemented. Environmental exposure can be excluded taken into account the risk reduction measures which are already being applied.	
10. Guidance to DU to evaluate whether he works inside the boundaries set by the ES	
Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.	

1. Exposure scenario title	ES 10: Industrial use of sulphamic acid as composite additive for hardening control of amino resins
2. Identified uses covered in the Exposure Scenario	
(ES 10 just covers the industrial use of the Sulfamic acid as composite additive for hardening control of amino resins) Identified Use 20 "Composite additive for hardening control of amino resins"	
3. Description of activities/process(es) covered in the Exposure Scenario	
SU 3 "Industrial uses: Uses of substance as such or in preparations at industrial sites" PC 1 "Adhesives, sealants" PROC 5 "Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact)" PROC 8a "Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities" PROC 8b "Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities" ERC2 "Formulation of preparations" ERC 6d "Production of resins/rubbers"	
4. Operational conditions	
4.1 Duration of use for which the ES ensures control of risk	> 4 h/d
4.2 Frequency of use for which the ES ensures control of risk	Not specified
4.3 Amount of use for which the ES ensures control of risk	15-100 t/y
5. Substance properties and use parameters	
5.1 Physical form of product in which the substance is contained	Liquid
5.1a Surface area per amount of article containing the substance (if applicable)	Not applicable
5.2 Concentration of substance in preparation	Not specified
5.3 Amount used per time or per activity for which the RMMs, in combination with other operational conditions of use ensure control of risk (if applicable)	Not specified
6. Other operational conditions determining exposure	
Room volume Ventilation rate: Temperature: Water flow rate: Other operational conditions:	≥ 20 m ³ not specified < 60 °C not limited none
7. Risk Management Measures that, in combination with the operational conditions of use, ensure control of risk related to the different target groups	
7.1.1 Occupational measures	
Data type	Data field
General measure	
Skin contact inadmissible - Touching forbidden	Not to be used without protective gloves and eye protection Immediately eliminate or neutralize spilled solution, Do not inhale aerosols, fumes
Additional instruction,	Clean contaminated protective gloves with flowing water before taking off. Clean or take off protective clothing immediately after contaminating. Examine protective gloves for damage before beginning the activity.
Pour only with small heads (20 cm or less) or let liquid flow on the rim of container	Valid for all activities/all PROCs

(avoidance of splashes)	
Product-related measures	
Product-related measures	High viscosity adjustment with aids to avoid splashes. Delivery only as barrel commodity and/or in the tank car (For all PROC).
Technical measures	Operation temperature: < 60 °C
Organizational measures	
General measures	Handling permissible only after instruction on the dangers. Regular control of the effectiveness of the technical measures, Regular control of the application of the personal measures, (valid for all indicated activities/all above PROCs)
Additional measures	Entrance to production/processing only for technical personnel, Delivery only to the specialized trade. Hold only the quantity necessary for the processing ready.
Local exhaust ventilation required plus good work practise	Local exhaust ventilation is recommended.
Personal protective equipment (PPE)	
	Hand protection: Gloves with 8-hour break-through security for longer application, e.g. butyl rubber or nitrile rubber protective index 6, EN 372. Eye protection: Eye protector or goggles (all activities/PROCs), e.g. EN 166. Respiratory protection: Respiratory protection equipment. Body protection: Exposure suit for some activities with significant exposure possibility. Other measures: Take a shower and change clothes after work. Handling permissible only after instruction on the dangers. Regular control of the effectiveness of the technical measures, Regular control of the application of the personal measures, (valid for all indicated activities/all above PROCs)
7.1.2 Consumer related measures:	Not applicable for this Exposure Scenario
7.2 Environment related measures	It is recommended that rainwater, sanitary sewage and industrial waste water can be separated from the sewerage and disposed by the sewage disposal apparatus. Neutralize before introducing into open waters (Regular control of the pH value during introduction into open waters). Remainders on application devices with much water. Diluted before discharge when necessary.
8. Waste related measures needed to ensure control of risk at the different life cycle stages of the substances (including preparations or articles at the end of service life)	
The wastes should be disposed of in according to local regulations. Avoid disposing into drainage systems and into the environment directly. The soiled packaging should be disposed of in the same way as the product. Discharges of sulphamic acid from production to sewage treatment plants (STP)/waste water treatment plants and receiving waters are well controlled.	
9. Prediction of exposure resulting from the conditions described above	
The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated. Predicted exposures are not expected to exceed the applicable exposure limits (DNEL as provided above) when the operational conditions/risk management measures described above are implemented. Environmental exposure can be excluded taken into account the risk reduction measures which are already being applied.	
10. Guidance to DU to evaluate whether he works inside the boundaries set by the ES	
Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.	

Appendix: Abbreviations used in this exposure scenario document

AC	Article category
DNEL	Derived no effect level
DU	Downstream user
ECETOC TRA	Targeted Risk Assessment Tool provided by ECETOC (European Centre for Ecotoxicology and Toxicology of Chemicals)
ERC	Environmental release category
ES	Exposure scenario
OC	Operational conditions
PC	Product category
PEC	Predicted environmental concentration
PNEC	Predicted no effect concentration
PROC	Process category
RMM	Risk management measures
SU	Sector of use