

FICHA DE DADOS DE SEGURANÇA

(de acordo com o Regulamento (UE) 2020/878)

0055-Filnet



Versão 1 Data de emissão: 1/10/2018

Versão 5 (substitui a versão 4)

Data de revisão: 09/03/2022

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SECÇÃO 1: IDENTIFICAÇÃO DA SUBSTÂNCIA/MISTURA E DA SOCIEDADE/EMPRESA.

1.1 Identificador do produto.

Nome do produto: Filnet
Código do produto: 0055
Nome Químico: ácido sulfâmico
N. Índice: 016-026-00-0
N. CAS: 5329-14-6
N. CE: 226-218-8
N. registo: 01-2119488633-28-XXXX

1.2 Utilizações identificadas relevantes da substância ou mistura e utilizações desaconselhadas.

Powder descaler for filters

Usos não aconselhados:

Usos diferentes aos aconselhados.

Os cenários de exposição que cobrem usos podem ser enconorados no anexo.

1.3 Identificação do fornecedor da ficha de dados de segurança.

Empresa: **FLUIDRA COMMERCIAL, S.A.U.**
Endereço: Av. Alcalde Barnils, 69
População: 08174 Sant Cugat del Vallès (Barcelona) Spain
Distrito: Barcelona
Telefone: Tel:34 93 724 39 00 Fax:34 93 724 29 93
Fax: +34 93 713 41 11
E-mail: fds@inquire.com
Web: www.astralpool.com

1.4 Número de telefone de emergência: +34 93 724 39 00 (Só disponível em horário de escritório; segunda-feira-sexta-feira; 08:00-18:00)

Em caso de intoxicação contactar o Centro de Informação Antivenenos (CIAV) (+351) 800 250 250.

Atendimento médico 24 horas por dia, 7 dias por semana.

SECÇÃO 2: IDENTIFICAÇÃO DOS PERIGOS.

2.1 Classificação da substância ou mistura.

Segundo o Regulamento (EU) No 1272/2008:

Aquatic Chronic 3 : Nocivo para os organismos aquáticos com efeitos duradouros.

Eye Irrit. 2 : Provoca irritação ocular grave.

Skin Irrit. 2 : Provoca irritação cutânea.

2.2 Elementos do rótulo.

Rótulo de acordo com o Regulamento (EU) No 1272/2008:

Pictogramas:



Palavras-sinal:

Atenção

Advertências de perigo:

H315 Provoca irritação cutânea.

H319 Provoca irritação ocular grave.

H412 Nocivo para os organismos aquáticos com efeitos duradouros.

Recomendações de prudência:

P102 Manter fora do alcance das crianças.

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P273 Evitar a libertação para o ambiente.
P302+P352 SE ENTRAR EM CONTACTO COM A PELE: lavar com sabonete e água abundantes.
P305+P351+P338 SE ENTRAR EM CONTACTO COM OS OLHOS: Enxaguar cuidadosamente com água durante vários minutos. Se usar lentes de contacto, retire-as, se tal lhe for possível. Continue a enxaguar.
P332+P313 Em caso de irritação cutânea: consulte um médico.
P337+P313 Caso a irritação ocular persista: consulte um médico.
P362+P364 Retirar a roupa contaminada e lavá-la antes de a voltar a usar.
P501 Eliminar o conteúdo e/ou o recipiente de acordo com a legislação em vigor quanto ao tratamento de resíduos.

Contém:
ácido sulfâmico

2.3 Outros perigos.

A substância não é PBT
A substância não é mPmB
A substância não tem propriedades desreguladoras do sistema endócrino.

Em condições de uso normal e na sua forma original, o produto não tem efeitos negativos sobre a saúde e o meio ambiente.

SECÇÃO 3: COMPOSIÇÃO/INFORMAÇÃO SOBRE OS COMPONENTES.

3.1 Substâncias.

Identificadores	Nome	Concentração	(*)Classificação -Regulamento 1272/2008	
			Classificação	Limite de concentração específico e a Estimativa da Toxicidade Aguda
N. Índice: 016-026-00-0 N. CAS: 5329-14-6 N. CE: 226-218-8	ácido sulfâmico	25 - 100 %	Aquatic Chronic 3, H412 - Eye Irrit. 2, H319 - Skin Irrit. 2, H315	-

3.2 Misturas.

Não Aplicável.

SECÇÃO 4: MEDIDAS DE PRIMEIROS SOCORROS.

MISTURA IRRITANTE. O contacto repetido ou prolongado com a pele ou as mucosas, pode causar sintomas irritantes, tais como avermelhamento, bolhas ou dermatite. Alguns dos sintomas podem não ser imediatos. Podem produzir-se reacções alérgicas na pele.

4.1 Descrição das medidas de emergência.

Nos casos de dúvida, ou quando persistirem os sintomas de mal-estar, solicitar atenção médica. Não administrar nunca nada por via oral a pessoas que se encontrem inconscientes.

Inalação.

Situar o acidentado ao ar livre, mantê-lo quente e em repouso, se a respiração for irregular ou se detiver, praticar respiração artificial.

Contacto com os olhos.

Retirar as lentes de contato, se levar e resultar fácil de fazer. Lavar abundantemente os olhos com água limpa e fresca durante, pelo menos, 10 minutos, puxando para cima das pálpebras e procurar assistência médica. Não permita que a pessoa se esfregue o olho afetado.

Contacto com a pele.

Tirar a roupa contaminada. Lavar a pele vigorosamente com água e sabão ou um limpador de pele adequado. NUNCA utilizar dissolventes ou diluentes.

Ingestão.

Se acidentalmente foi ingerido, procurar imediatamente atenção médica. Mantê-lo em repouso. NUNCA provocar o vômito.

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4.2 Sintomas e efeitos mais importantes, tanto agudos como retardados.

Produto Irritante: o contacto repetido ou prolongado com a pele ou as mucosas pode causar vermelhidão, bolhas ou dermatite, a inalação de nevoeiro de pulverização ou partículas em suspensão pode causar irritação das vias respiratórias e alguns dos sintomas podem não ser imediatos.

4.3 Indicações sobre cuidados médicos urgentes e tratamentos especiais necessários.

Nos casos de dúvida, ou quando persistirem os sintomas de mal-estar, solicitar atenção médica. Não administrar nunca nada por via oral a pessoas que se encontrem inconscientes. Cubra a zona afetada com um compressa estéril seca. Proteja a zona afetada de pressão ou fricção.

SECÇÃO 5: MEDIDAS DE COMBATE A INCÊNDIOS.

O produto NÃO está classificado como inflamável; em caso de incêndio devem-se seguir as medidas expostas em seguida:

5.1 Meios de extinção.

Meios de extinção adequados:

Pó extintor ou CO₂. Em caso de incêndios mais graves também espuma resistente ao álcool e água pulverizada.

Meios de extinção inadequados:

Não usar para a extinção jato direto de água. Em presença de tensão elétrica não é aceitável utilizar água ou espuma como meio de extinção.

5.2 Perigos especiais decorrentes da substância ou mistura.

Riscos especiais.

A exposição aos produtos de combustão ou decomposição pode ser prejudicial para a saúde.

5.3 Recomendações para o pessoal de combate a incêndios.

Refrigerar com água os tanques, cisternas ou recipientes próximos à fonte de calor ou fogo. Ter em conta a direção do vento. Evitar que os produtos utilizados na luta contra incêndio passem a esgotos, sumidouros ou cursos de água. Os restos de produto e meios de extinção podem contaminar o meio ambiente aquático.

Equipamento de proteção contra incêndios.

Segundo a magnitude do incêndio, pode ser necessário o uso de roupas de proteção contra o calor, equipamento respiratório autónomo, luvas, óculos protetores ou máscaras faciais e botas.

SECÇÃO 6: MEDIDAS EM CASO DE FUGA ACIDENTAL.

6.1 Precauções individuais, equipamento de proteção e procedimentos de emergência.

Para controlo de exposição e medidas de proteção individual, ver secção 8.

6.2 Precauções a nível ambiental.

Produto perigoso para o ambiente, no caso de se produzirem grandes vertidos ou se o produto poluir lagos, rios ou sumidouros, informar as autoridades competentes, segundo a legislação local. Evitar a poluição de esgotos, águas superficiais ou subterrâneas, bem como do solo.

6.3 Métodos e materiais de confinamento e limpeza.

Conter e recolher o derrame com material absorvente inerte (terra, areia, vermiculita, terra de diatomáceas...) e limpe a área imediatamente com um descontaminante adequado.

Deposite os resíduos em recipientes fechados e adequados para a eliminação, de acordo com os regulamentos locais e nacionais (ver secção 13).

6.4 Remissão para outras secções.

Para controlo de exposição e medidas de proteção individual, ver secção 8.

Para a posterior eliminação dos resíduos, seguir as recomendações da secção 13.

SECÇÃO 7: MANUSEAMENTO E ARMAZENAGEM.

7.1 Precauções para um manuseamento seguro.

Para a proteção pessoal, ver secção 8.

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Na zona de aplicação deve ser proibido fumar, comer e beber.

Cumprir com a legislação sobre segurança e higiene no trabalho.

Não utilizar nunca pressão para esvaziar os recipientes, não são recipientes resistentes à pressão. Conservar o produto em recipientes de um material idêntico ao original.

7.2 Condições de armazenagem segura, incluindo eventuais incompatibilidades.

Armazenar segundo a legislação local. Observar as indicações da etiqueta. Armazenar os recipientes entre 5 e 25 °C, num local seco e bem ventilado, longe de fontes de calor e da luz solar directa. Manter longe de pontos de ignição. Manter longe de agentes oxidantes e de materiais fortemente ácidos ou alcalinos. Não fumar. Evitar a entrada a pessoas não autorizadas. Depois de ter aberto os recipientes, estes devem ser fechados de novo com cuidado, e colocados verticalmente para evitar derrames.

O produto não está afetado pela Directiva 2012/18/UE (SEVESO III).

7.3 Utilizações finais específicas.

Nenhum em particular.

SECÇÃO 8: CONTROLO DA EXPOSIÇÃO/PROTEÇÃO INDIVIDUAL.

8.1 Parâmetros de controlo.

O produto NÃO contém substâncias com Valores Limite Ambientais de Exposição Profissional. O produto NÃO contém substâncias com Valores Biológicos Limite.

Níveis de concentração DNEL/DMEL:

Nome	DNEL/DMEL	Tipo	Valor
ácido sulfâmico N. CAS: 5329-14-6 N. CE: 226-218-8	DNEL (Trabalhadores)	Dérmica, Crónico, Efeitos sistémicos	10 (mg/kg bw/day)
	DNEL (Consumidores)	Dérmica, Crónico, Efeitos sistémicos	5 (mg/kg bw/day)
	DNEL (Consumidores)	Oral, Crónico, Efeitos sistémicos	5 (mg/kg bw/day)

DNEL: Derived No Effect Level, (nível sem efeito obtido) nível de exposição à substância por baixo do qual não são previstos efeitos adversos.

DMEL: Derived Minimal Effect Level, nível de exposição que corresponde a um risco baixo, que deve ser considerado um risco mínimo tolerável.

Níveis de concentração PNEC:

Nome	Detalhes	Valor
ácido sulfâmico N. CAS: 5329-14-6 N. CE: 226-218-8	água (água doce)	0,048 (mg/L)
	água (água marinha)	0,0048 (mg/L)
	água (descargas intermitentes)	0,48 (mg/L)
	STP	2 (mg/L)
	sedimento (água doce)	0,173 (mg/kg sediment dw)
	sedimento (água marinha)	0,0173 (mg/kg sediment dw)
	soil	0,00638 (mg/kg soil dw)

PNEC: Predicted No Effect Concentration, (concentração prevista sem efeitos) concentração da substância por baixo da qual não são esperados efeitos negativos no comportamento ambiental.

8.2 Controlo da exposição.

Medidas de ordem técnica:

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Prover uma ventilação adequada, o qual pode ser conseguido mediante uma boa extração -ventilação local e um bom sistema geral de extração.

Concentração:		100 %	
Usos:		Powder descaler for filters	
Proteção respiratória:			
Se as medidas técnicas recomendadas forem cumpridas, não é necessário qualquer equipamento de proteção individual.			
Proteção das mãos:			
EPI:	Luvas de protecção contra produtos químicos		
Características:	Marcação «CE» Categoria III.		
Normas CEN:	EN 374-1, En 374-2, EN 374-3, EN 420		
Manutenção:	Devem ser guardadas em lugar seco, afastadas de eventuais fontes de calor, e deve-se evitar a exposição aos raios solares na medida do possível. Não devem ser efectuadas nas luvas quaisquer modificações que possam alterar a sua resistência e também não se devem aplicar nas mesmas tintas, solventes ou adesivos.		
Observações:	As luvas devem ser do tamanho correcto, e ser ajustadas à mão sem ficarem demasiado folgadas nem demasiado apertadas. Deverão ser sempre utilizadas com as mãos limpas e secas.		
Material:	PVC (cloreto polivinílico)	Tempo de penetração (min.):	> 480
		Espessura do material (mm):	0,35
Proteção dos olhos:			
EPI:	Escudo facial		
Características:	Marcação «CE» Categoria II. Protector dos olhos e da face contra salpicaduras de líquidos.		
Normas CEN:	EN 165, EN 166, EN 167, EN 168		
Manutenção:	A visibilidade através dos óculos deve ser óptima, razão pela qual se devem limpar diariamente estes elementos, devendo os protectores ser desinfectados periodicamente, seguindo as instruções do fabricante. Deve-se velar para que as partes móveis tenham um accionamento suave.		
Observações:	Os escudos faciais devem ter um campo de visão com uma dimensão na linha central de 150 mm no mínimo, em sentido vertical, uma vez acoplados na armação.		
Proteção da pele:			
EPI:	Roupa de protecção		
Características:	Marcação «CE» Categoria II. A roupa de protecção não deve ser estreita nem ficar solta para que não interfira nos movimentos do utilizador.		
Normas CEN:	EN 340		
Manutenção:	Devem-se seguir as instruções de lavagem e conservação proporcionadas pelo fabricante para se garantir uma protecção invariável.		
Observações:	A roupa de protecção deve proporcionar um nível de conforto em consonância com o nível de protecção que deve proporcionar face ao risco contra o qual protege, com as condições ambientais, o nível de actividade do utilizador e o tempo de uso previsto.		

SECÇÃO 9: PROPRIEDADES FÍSICO-QUÍMICAS.

9.1 Informações sobre propriedades físicas e químicas de base.

Estado físico: Sólido

Cor: Branco

Odor: Inodoro

Limiar de odor: Não aplicável/Não disponível devido à natureza/propriedades do produto

Ponto de fusão: 205 °C

Ponto de congelação: Não aplicável/Não disponível devido à natureza/propriedades do produto

Ponto de ebulição ou ponto de ebulição inicial e intervalo de ebulição: Não aplicável/Não disponível devido à natureza/propriedades do produto

Inflamabilidade: Não aplicável/Não disponível devido à natureza/propriedades do produto

Limite inferior de explosividade: Não aplicável/Não disponível devido à natureza/propriedades do produto

Limite superior de explosividade: Não aplicável/Não disponível devido à natureza/propriedades do produto

Ponto de inflamação: 100 °C (Estimativa com base nas indicações do Regulamento (CE) n.º 1272/2008)

Temperatura de autoignição: Não aplicável/Não disponível devido à natureza/propriedades do produto

Temperatura de decomposição: Não aplicável/Não disponível devido à natureza/propriedades do produto

pH: 1,18 (1%)

Viscosidade cinemática: Não aplicável/Não disponível devido à natureza/propriedades do produto

Solubilidade: Não aplicável/Não disponível devido à natureza/propriedades do produto

Hidrosolubilidade: 213 g/l

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Lipossolubilidade: Não aplicável/Não disponível devido à natureza/propriedades do produto
Coeficiente de partição n-octanol/água (valor logarítmico): Não aplicável/Não disponível devido à natureza/propriedades do produto
Pressão de vapor: Não aplicável/Não disponível devido à natureza/propriedades do produto
Densidade absoluta: Não aplicável/Não disponível devido à natureza/propriedades do produto
Densidade relativa: 2.12 (20 °C)
Densidade relativa do vapor: Não aplicável/Não disponível devido à natureza/propriedades do produto
Características das partículas: Não aplicável/Não disponível devido à natureza/propriedades do produto

9.2 Outras informações.

Viscosidade: Não aplicável/Não disponível devido à natureza/propriedades do produto
Propriedades explosivas: Não aplicável/Não disponível devido à natureza/propriedades do produto
Propriedades comburentes: No aplicable
Ponto de gota: Não aplicável/Não disponível devido à natureza/propriedades do produto
Cintilação: Não aplicável/Não disponível devido à natureza/propriedades do produto

SECÇÃO 10: ESTABILIDADE E REATIVIDADE.

10.1 Reatividade.

O produto não apresentar riscos devido à sua reatividade.

10.2 Estabilidade química.

Instável em contato com:

- Bases.

10.3 Possibilidade de reações perigosas.

Pode produzir-se uma neutralização em contato com bases.

10.4 Condições a evitar.

- Evitar o contato com bases.

10.5 Materiais incompatíveis.

Evitar os seguintes materiais:

- Bases.

10.6 Produtos de decomposição perigosos.

Dependendo das condições de uso, podem ser gerados os seguintes produtos:

- Vapores ou gases corrosivos.

SECÇÃO 11: INFORMAÇÃO TOXICOLÓGICA.

MISTURA IRRITANTE. Salpicaduras nos olhos podem causar irritação dos mesmos.

MISTURA IRRITANTE. O contacto repetido ou prolongado com a pele ou as mucosas, pode causar sintomas irritantes, tais como avermelhamento, bolhas ou dermatite. Alguns dos sintomas podem não ser imediatos. Podem produzir-se reacções alérgicas na pele.

11.1 Informações sobre as classes de perigo, tal como definidas no Regulamento (CE) nº 1272/2008.

O contacto repetido ou prolongado com o produto, pode causar a eliminação da gordura da pele, dando lugar a uma dermatite de contacto não alérgica e a que o produto seja absorvido através da pele.

Informação Toxicológica.

Nome	Toxicidade aguda			
	Tipo	Ensaio	Espécie	Valor
ácido sulfâmico	Oral	L50	Rat	> 2000 mg/kg
	Cutânea	LD50	Rat	>2000 mg/kg bw [1]
	Inalação	[1] Study report, 2010.		
N. CAS: 5329-14-6 N. CE: 226-218-8				

a) Toxicidade aguda;

Dados não inclusivos para a classificação.

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b) Corrosão/irritação cutânea;

Produto classificado:

Irritante cutâneo, Categoria 2: Provoca irritação cutânea.

c) Lesões oculares graves/irritação ocular;

Produto classificado:

Irritação ocular, Categoria 2: Provoca irritação ocular grave.

d) Sensibilização respiratória ou cutânea;

Dados não inclusivos para a classificação.

e) Mutagenicidade em células germinativas;

Dados não inclusivos para a classificação.

f) Carcinogenicidade;

Dados não inclusivos para a classificação.

g) Toxicidade reprodutiva;

Dados não inclusivos para a classificação.

h) Toxicidade para órgãos-alvo específicos (STOT) - exposição única;

Dados não inclusivos para a classificação.

i) Toxicidade para órgãos-alvo específicos (STOT) - exposição repetida;

Dados não inclusivos para a classificação.

j) Perigo de aspiração.

Dados não inclusivos para a classificação.

11.2 Informações sobre outros perigos.

Propriedades desreguladoras do sistema endócrino

Este produto não contém componentes com propriedades desreguladoras do sistema endócrino com efeitos sobre a saúde humana.

Outras informações

Não existem informações disponíveis sobre outros efeitos adversos para a saúde.

SECÇÃO 12: INFORMAÇÃO ECOLÓGICA.

12.1 Toxicidade.

Nome	Ecotoxicidade			
	Tipo	Ensaio	Espécie	Valor
ácido sulfâmico N. CAS: 5329-14-6 N. CE: 226-218-8	Peixes	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.		
	Invertebrados aquáticos	EC50	Daphnia magna	71.6 mg/l (48 h) [1]
		[1] Study report, 2010.		
	Plantas aquáticas	EC50	Desmodesmus subspicatus	48 mg/l (72 h) [1]
		[1] Study report, 2010. OECD Guideline 201 (Alga, Growth Inhibition Test)		

12.2 Persistência e degradabilidade.

Não se dispõe de informação relativa à biodegradabilidade.

Não se dispõe de informação relativa à degradabilidade.

Não há informação disponível sobre a persistência e degradabilidade do produto

12.3 Potencial de bioacumulação.

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Não estão disponíveis informações relativas à Bioacumulação.

12.4 Mobilidade no solo.

Não há informação disponível sobre a mobilidade no solo.

Não é permitido o vertido em sumidouros ou cursos de água.

Evitar a penetração no solo.

12.5 Resultados da avaliação PBT e mPmB.

Não há informações disponíveis sobre a avaliação PBT e mPmB do produto.

12.6 Propriedades desreguladoras do sistema endócrino.

Este produto não contém componentes com propriedades desreguladoras do sistema endócrino sobre o ambiente.

12.7 Outros efeitos adversos.

Não há informação sobre outros efeitos adversos para o meio ambiente.

SECÇÃO 13: CONSIDERAÇÕES RELATIVAS À ELIMINAÇÃO.

13.1 Métodos de tratamento de resíduos.

Não é permitido o vertido em sumidouros ou cursos de água. Os resíduos e recipientes vazios devem ser manipulados e eliminados de acordo com as legislações locais/nacionais vigentes.

Siga as disposições da Directiva 2008/98/CE relativas à gestão de resíduos, DL 73/2011 e Decisão da Comissão 2014/955 / UE (códigos LER).

SECÇÃO 14: INFORMAÇÕES RELATIVAS AO TRANSPORTE.

Transportar seguindo as normas ADR/TPC para o transporte por estrada, as RID por caminho-de-ferro, as IMDG por mar e as ICAO/IATA para transporte aéreo.

Terra: Transporte por estrada: ADR, Transporte por caminho-de-ferro: RID.

Documentação de transporte: Carta de porte e Instruções escritas.

Mar: Transporte por barco: IMDG.

Documentação de transporte: Conhecimento de embarque.

Ar: Transporte por avião: IATA/ICAO.

Documento de transporte: Conhecimento aéreo.

14.1 Número ONU ou número de ID.

Nº UN: 2967

14.2 Designação oficial de transporte da ONU.

Descrição:

ADR/RID: UN 2967, ÁCIDO SULFÂMICO, 8, GE III, (E)

IMDG: UN 2967, ÁCIDO SULFÂMICO, 8, GE III

OACI/IATA: UN 2967, ÁCIDO SULFÂMICO, 8, GE III

14.3 Classes de perigo para efeitos de transporte.

Classe(s): 8

14.4 Grupo de embalagem.

Grupo de embalagem: III

14.5 Perigos para o ambiente.

Poluente marinho: Não

Transporte por barco, FEm - Fichas de emergência (F – Incêndio, S - Derrames): F-A,S-B

14.6 Precauções especiais para o utilizador.

Etiquetas: 8

FICHA DE DADOS DE SEGURANÇA

(de acordo com o Regulamento (UE) 2020/878)

0055-Filnet



Versão 1

Data de emissão: 1/10/2018

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Versão 5 (substitui a versão 4)

Data de revisão: 09/03/2022

Data de impressão: 26-11-2024



Número de perigo: 80

ADR LQ: 5 kg

IMDG LQ: 5 kg

ICAO LQ: 5 kg

Disposições relativas ao transporte a granel em ADR:

VC1 É permitido o transporte a granel em veículos com toldo, em contentores com toldo ou em contentores para granel com toldo.

VC2 É permitido o transporte a granel em veículos cobertos, em contentores fechados ou em contentores para granel fechados.

AP7 O transporte a granel deve ser feito apenas com plena carga.

Actuar de acordo com o ponto 6.

Grupo de segregação do Código IMDG: 1 Ácidos

14.7 Transporte marítimo a granel em conformidade com os instrumentos da OMI.

O produto não é afetado pelo transporte a granel em navios.

SECÇÃO 15: INFORMAÇÃO SOBRE REGULAMENTAÇÃO.

15.1 Regulamentação/legislação específica para a substância ou mistura em matéria de saúde, segurança e ambiente.

O produto não é afetado pelo Regulamento (CE) nº 1005/2009 do Parlamento Europeu e do Conselho, de 16 de Setembro de 2009, relativo às substâncias que empobrecem a camada de ozono.

Composto orgânico volátil (COV)

Teor de COV (p/p): 0 %

Teor de COV: 0 g/l

Classificação do produto de acordo com o Anexo I da Directiva 2012/18/UE (SEVESO III): N/A

O produto está afetado pelo DL 147/2008, de 29 de julho (responsabilidade por danos ambientais).

O produto não está afetado pelo Regulamento (UE) No 528/2012 relativo à comercialização e ao uso dos biocidas.

O produto não está afetado pelo procedimento estabelecido no Regulamento (UE) No 649/2012, relativo à exportação e importação de produtos químicos perigosos.

Classe de contaminante para a água (Alemanha): WGK 1: Pouco perigoso para a água. (Autoclassificado conforme Regulamento AwSV)

15.2 Avaliação da segurança química.

Não foi realizada uma avaliação da segurança química do produto.

Dispõe-se de Cenário de Exposição do produto.

SECÇÃO 16: OUTRAS INFORMAÇÕES.

Códigos de classificação:

Aquatic Chronic 3 : Efeitos crónicos para o ambiente aquático, Categoria 3

Eye Irrit. 2 : Irritação ocular, Categoria 2

Skin Irrit. 2 : Irritante cutâneo, Categoria 2

Modificações em relação à versão anterior:

- Modificação de perigos especiais (SECÇÃO 2.3).

- Continua na página seguinte. -

FICHA DE DADOS DE SEGURANÇA

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- Modificação nas medidas de combate a incêndios (SECÇÃO 5.2).
- Modificações nas medidas a tomar em caso de fugas acidentais (SECÇÃO 6.1).
- Modificações nas medidas a tomar em caso de fugas acidentais (SECÇÃO 6.2).
- Modificação nos valores das propriedades físico-químicas (SECÇÃO 9).
- Mudança na classificação de perigo (SECÇÃO 11.1).
- Modificação da classificação ADR/IMDG/ICAO/IATA/RID (SECÇÃO 14).
- Mudanças legislativas nacionais (SECÇÃO 15.1).
- Adicionado de abreviaturas e siglas (SECÇÃO 16).

Classificação e procedimento utilizado para determinar a classificação das misturas em conformidade com o Regulamento (CE) n.º 1272/2008 [CRE]:

Perigos físicos	Com base em dados de ensaio
Perigos para a saúde	Método de cálculo
Perigos para o ambiente	Método de cálculo

Aconselha-se que seja dada formação básica relativamente à segurança e higiene laboral para que seja efectuado um manuseamento correcto do produto.

Dispõe-se de Cenário de Exposição do produto.

Abreviaturas e siglas utilizadas:

ADR/RID: Acordo europeu sobre o transporte internacional de mercadorias perigosas por estrada.

AwSV: Regulamento de Instalações para a manipulação de substâncias perigosas para a água.

CEN: Comité Europeu de Normalização.

DMEL: Derived Minimal Effect Level, nível de exposição que corresponde a um risco baixo, que deve ser considerado um risco mínimo tolerável.

DNEL: Derived No Effect Level, (nível sem efeito obtido) nível de exposição à substância por baixo do qual não são previstos efeitos adversos.

EC50: Concentração média eficaz.

EPI: Equipamento de proteção individual.

IATA: Associação Internacional dos Transportes Aéreos.

OACI: Organização da Aviação Civil Internacional.

IMDG: Código Internacional Marítimo sobre Mercadorias Perigosas.

LC50: Concentração letal, 50%.

LD50: Dose Letal, 50%.

PNEC: Predicted No Effect Concentration, (concentração prevista sem efeitos) concentração da substância por baixo da qual não são esperados efeitos negativos no comportamento ambiental.

RID: Regulamento relativo ao transporte internacional de mercadorias perigosas por via férrea.

WGK: Classes de perigo para a água.

Principais referências bibliográficas e fontes de dados:

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

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

Regulamento (UE) 2020/878.

Regulamento (CE) No 1907/2006.

Regulamento (UE) No 1272/2008.

A informação facilitada nesta ficha de Dados de Segurança foi redigida de acordo com o REGULAMENTO (UE) 2020/878 DA COMISSÃO de 18 de junho de 2020 que altera o Anexo II do Regulamento (CE) n.º 1907/2006 do Parlamento Europeu e do Conselho relativo ao registo, avaliação, substâncias e misturas químicas (REACH).

A informação desta Ficha de Dados de Segurança do produto está baseada nos conhecimentos actuais e nas leis vigentes da CE e nacionais, quanto a que as condições de trabalho dos utilizadores estiverem fora do nosso conhecimento e controlo. O produto não deve ser utilizado para fins distintos àqueles que são especificados, sem ter primeiro uma instrução por escrito, da sua utilização. É sempre responsabilidade do utilizador tomar as medidas oportunas com a finalidade de cumprir com as exigências estabelecidas nas legislações.

-Fim da ficha de dados de segurança.-

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	$\geq 20 \text{ m}^3$
	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: $< 60 \text{ }^{\circ}\text{C}$
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	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^3 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	≥ 20 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	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