FICHE DE DONNÉES DE SÉCURITÉ
(conformément au RÈGLEMENT (UE) 2020/878)

0055-Filnet

RUBRIQUE 1: IDENTIFICATION DE LA SUBSTANCE/DU MÉLANGE ET DE LA SOCIÉTÉ/L'ENTREPRISE.

1.1 Identificateur de produit.

Nom du produit: Filnet
Code du produit: 0055
Nom chimique: acide sulfamique
N. Index: 016-026-00-0
N. CAS: 5329-14-6
N. CE: 226-218-8
N. d'enregistrement: 01-2119488633-28-XXXX

1.2 Utilisations identifiées pertinentes de la substance ou du mélange et utilisations déconseillées.

Powder descaler for filters

Usages non recommandés:
Usages différents de ceux recommandés.
Les scénarios d'exposition couvrant les utilisations se trouvent dans l'annexe.

1.3 Renseignements concernant le fournisseur de la fiche de données de sécurité.

Entreprise: **FLUIDRA COMMERCIAL, S.A.U.**
Adresse: Av. Alcalde Barnils, 69
Ville: 08174 Sant Cugat del Vallès (Barcelona) Spain
Province ou région: Barcelona
Numéro de Téléphone: 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 Numéro d'appel d'urgence: +34 93 724 39 00 (Disponible seulement en horaire de bureaux; Lundi-Vendredi; 08:00-18:00)
Giftnotrufzentrale Berlin : Telefon: +49 (0) 30 / 30 686 790
Anti poisoning centre:
FRANCE (Paris): 01 40 05 48 48
FRANCE (Tolousse): 05 61 77 74 47
FRANCE (Marseille): 04 91 75 25 25
ORFILA (INRS) : + 33 (0)1 45 42 59 59
BELGIQUE (Brussel): (+32) 070 245 245
NVIC: +31 (0)88 755 8000

RUBRIQUE 2: IDENTIFICATION DES DANGERS.

2.1 Classification de la substance ou du mélange.

Conformément au Règlement (CE) No 1272/2008:
Aquatic Chronic 3 : Nocif pour les organismes aquatiques, entraîne des effets néfastes à long terme.
Eye Irrit. 2 : Provoque une sévère irritation des yeux.
Skin Irrit. 2 : Provoque une irritation cutanée.

2.2 Éléments d'étiquetage.

Étiquetage conformément au Règlement (CE) No 1272/2008:
Pictogrammes:

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Mention d'avertissement:

Attention

Mentions de danger:

H315 Provoque une irritation cutanée.
H319 Provoque une sévère irritation des yeux.
H412 Nocif pour les organismes aquatiques, entraîne des effets néfastes à long terme.

Conseils de prudence:

P102 Tenir hors de portée des enfants.
P273 Éviter le rejet dans l'environnement.
P302+P352 EN CAS DE CONTACT AVEC LA PEAU: laver abondamment à l'eau et au savon.
P305+P351+P338 EN CAS DE CONTACT AVEC LES YEUX: Rincer avec précaution à l'eau pendant plusieurs minutes. Enlever les lentilles de contact si la victime en porte et si elles peuvent être facilement enlevées. Continuer à rincer.
P332+P313 En cas d'irritation cutanée: consulter un médecin.
P337+P313 Si l'irritation oculaire persiste: consulter un médecin.
P362+P364 Enlever les vêtements contaminés et les laver avant réutilisation.
P501 Éliminer le contenu et/ou le récipient conformément à la réglementation sur les déchets dangereux.

Contient:
acide sulfamique

2.3 Autres dangers.

La substance n'est pas PBT
La substance n'est pas vPvB
La substance ne posséde pas de propriété d'altération endocrinien.

En conditions normales d'utilisation et dans sa forme originale, le produit ne présente pas d'autres dangers pour la santé et pour l'environnement.

RUBRIQUE 3: COMPOSITION/INFORMATIONS SUR LES COMPOSANTS.

3.1 Substances.

Identifiants	Nom	Concentration	(*)Classification Règlement (CE) No 1272/2008	
			Classification	Limites de concentration spécifiques et Estimation de la toxicité aiguë
Index No: 016-026-00-0 CAS No: 5329-14-6 CE No: 226-218-8	acide sulfamique	25 - 100 %	Aquatic Chronic 3, H412 - Eye Irrit. 2, H319 - Skin Irrit. 2, H315	-

3.2 Mélanges.
Pas Applicable.

RUBRIQUE 4: PREMIERS SECOURS.

MÉLANGE IRRITANT. Un contact répété ou prolongé avec la peau ou les muqueuses, peut donner lieu à l'apparition de symptômes d'irritations tels que des rougeurs, des phlyctène ou une dermathose. Certains de ces symptômes peuvent ne pas apparaitre immédiatement. Des réactions allergiques de la peau peuvent également se produire.

4.1 Description des mesures de premiers secours.
En cas de doute ou si les symptômes persistent, demander l'assistance d'un médecin. Ne rien administrer par voie orale à une personne inconsciente.

En cas d'inhalation.

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Mettre la victime de l'accident à l'air libre, la maintenir au chaud et en position de repos, si sa respiration est irrégulière ou s'interrompt, pratiquer sur cette dernière la technique de la respiration artificielle.

En cas de contact avec les yeux.
Enlever les lentilles de contact si la victime en porte et si elles peuvent être facilement enlevées. Rincer abondamment les yeux à l'eau claire et fraîche, pendant au moins 10 minutes, tout en étirant régulièrement les paupières vers le haut et demander l'aide d'un médecin. Ne pas permettre à la personne de se frotter l'œil affecté.

En cas de contact avec la peau.
Retirer les vêtements souillés. Nettoyer vigoureusement la peau avec de l'eau et du savon ou tout produit nettoyant adapté. NE JAMAIS utiliser de solvants ou diluants.

En cas d'ingestion.
En cas d'ingestion, consulter immédiatement un médecin. Maintenir la victime en position de repos. NE JAMAIS provoquer le vomissement.

4.2 Principaux symptômes et effets, aigus et différés.
Produit irritant, le contact répété et prolongé avec la peau ou les muqueuses peut provoquer des rougeurs, des phlyctène ou une dermatite. L'inhalation de la brume de pulvérisation ou de particules en suspension peut provoquer des irritations des voies respiratoires, certains symptômes ne sont pas immédiats.

4.3 Indication des éventuels soins médicaux immédiats et traitements particuliers nécessaires.
En cas de doute ou si les symptômes persistent, demander l'assistance d'un médecin. Ne rien administrer par voie orale à une personne inconsciente. Couvrir avec un pansement stérile sec. Protéger la zone affectée de la friction ou pression.

RUBRIQUE 5: MESURES DE LUTTE CONTRE L'INCENDIE.

Le produit N'EST PAS classé comme inflammable, en cas d'incendie il est recommandé d'appliquer les mesures suivantes:

5.1 Moyens d'extinction.
Moyens d'extinction appropriés:
Extincteur de type poudre ou CO2. En cas d'incendies plus importants il est aussi possible d'utiliser de la mousse résistante à l'alcool ou pulvériser de l'eau.

Moyens d'extinction inappropriés:
Pour l'extinction ne jamais utiliser un jet direct d'eau. En presence de tension électrique ne pas utiliser de l'eau ou de la mousse comme moyen d'extinction.

5.2 Dangers particuliers résultant de la substance ou du mélange.
Risques particuliers.
L'exposition aux substances produites suite à la combustion ou à la décomposition peut être dangereuse pour la santé.

5.3 Conseils aux pompiers.
Rafraîchir par pulvérisation d'eau tout réservoir, citerne ou récipient proche du feu ou de toute autre source de chaleur. Tenir compte de la direction du vent. Veiller à ce que les produits utilisés lors de l'extinction d'un incendie ne se déversent pas dans les systèmes d'évacuation d'eau, les égouts ou dans un cours d'eau. Le produit résiduel et les moyens d'extinction peuvent contaminer l'environnement aquatique.

Équipement de protection anti-incendies.
En fonction de la magnitude ou de l'importance de l'incendie, l'utilisation de combinaisons de protection thermique, d'appareils de respiration individuels, de gants, de lunettes de protection ou de masques anatomiques faciaux et de bottes peut s'avérer nécessaire.

RUBRIQUE 6: MESURES À PRENDRE EN CAS DE DISPERSION ACCIDENTELLE.

6.1 Précautions individuelles, équipement de protection et procédures d'urgence.
Pour tout contrôle d'exposition et mesures de protection individuelle, voir rubrique 8.

6.2 Précautions pour la protection de l'environnement.

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Produit dangereux pour l'environnement, en cas de déversement important ou en cas de contamination de lacs, rivières ou égouts, informer les autorités compétentes, selon la législation locale. Éviter la contamination des systèmes d'évacuation d'eau, des eaux superficiels ou souterraines, du sol et du sous-sol.

6.3 Méthodes et matériel de confinement et de nettoyage.
Retenir et récupérer le produit déversé avec un matériau absorbant inerte (terre, sable, vermiculite, terre de diatomée...) et nettoyer immédiatement la zone avec un décontaminant approprié.
Déposer les déchets dans des récipients fermés et adaptés en vue de leur élimination, conformément aux normes locales et nationales (voir rubrique 13).

6.4 Référence à d'autres rubriques.
Pour tout contrôle d'exposition et mesures de protection individuelle, voir rubrique 8.
Pour l'ultérieure élimination des résidus, se reporter aux recommandations décrites dans la rubrique 13.

RUBRIQUE 7: MANIPULATION ET STOCKAGE.

7.1 Précautions à prendre pour une manipulation sans danger.
Pour la protection personnelle se reporter à la section 8.
Il est formellement interdit de fumer, manger ou boire dans la zone d'application du produit.
Respecter la législation relative à la Sécurité et à l'Hygiène dans le cadre du travail.
Ne jamais utiliser la pression pour vider les containers, ces derniers n'ayant pas été conçus pour résister à la pression. Conserver le produit dans un récipient de même matériau que le récipient ou container original.

7.2 Conditions d'un stockage sûr, y compris d'éventuelles incompatibilités.
Magasiner le produit en accord avec la législation locale correspondante. Tenir compte des indications portées sur l'étiquette. Conserver les containers entre 5 et 25 ºC, dans un endroit sec et bien aéré, à l'écart de toute source de chaleur et protégé de la lumière du soleil. Garder à l'écart de toute flamme. Éloigner de tout agent oxydant ou matériau hautement acide ou alcalin. Ne pas fumer. Refuser l'accès au personnel non autorisé. Une fois ouvert, tout container doit être précautionnement refermé et positionné verticalement afin d'éviter toute chute ou renversement.

Le produit n'est pas affecté par la Directive 2012/18/UE (SEVESO III).

7.3 Utilisation(s) finale(s) particulière(s).
Aucune utilisation particulière

RUBRIQUE 8: CONTRÔLES DE L'EXPOSITION/PROTECTION INDIVIDUELLE.

8.1 Paramètres de contrôle.

Le produit NE contient PAS de substances avec des Valeurs Limites Environnementale d'Exposition Professionnelle.Le produit ne contient pas de substances avec des Valeurs Limites Biologiques.
Niveaux de concentration DNEL/DMEL:

Nom	DNEL/DMEL	Type	Valeur
acide sulfamique CAS No: 5329-14-6 EC No: 226-218-8	DNEL (Travailleurs)	Cutané, Chronique, Effets systémiques	10 (mg/kg bw/day)
	DNEL (Consommateurs)	Cutané, Chronique, Effets systémiques	5 (mg/kg bw/day)
	DNEL (Consommateurs)	Oral, Chronique, Effets systémiques	5 (mg/kg bw/day)

DNEL : Derived No Effect Level, (niveau sans effets secondaires) niveau d'exposition à la substance en dessous duquel ne sont pas prévus d'effets défavorables.
DMEL: Derived Minimal Effect Level (niveau avec effets secondaires minimums) Niveau d'exposition correspondant à un risque faible, ce risque doit être considéré comme le minimum tolérable.

Niveaux de concentration PNEC:

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Nom	Détails	Valeur
acide sulfamique CAS No: 5329-14-6 EC No: 226-218-8	eau (eau douce)	0,048 (mg/L)
	eau (eau de mer)	0,0048 (mg/L)
	eau (rejets intermittents)	0,48 (mg/L)
	STP	2 (mg/L)
	sédiment (eau douce)	0,173 (mg/kg sediment dw)
	sédiment (eau de mer)	0,0173 (mg/kg sediment dw)
	soil	0,00638 (mg/kg soil dw)

PNEC: Predicted No Effect Concentration, (Concentration prévue sans effet) concentration de la substance en dessous de laquelle ne sont pas prévus d'effets défavorables dans le comportement environnemental.

8.2 Contrôles de l'exposition.

Mesures d'ordre technique:
Prévoir un système d'aération adapté, au moyen de l'installation d'une unité d'extraction- ventilation locale ainsi que d'un système général d'extraction.

Concentration:	**100 %**			
Utilisation(s):	**Powder descaler for filters**			
Protection respiratoire:				
Si l'on applique les mesures techniques recommandées, il n'est pas nécessaire de porter un équipement de protection individuelle.				
Protection des mains:				
PPE:	Gants de protection contre les produits chimiques			
Caractéristiques:	Marquage «CE» Catégorie III.			
Normes CEN:	EN 374-1, En 374-2, EN 374-3, EN 420			
Maintenance:	Conserver dans un endroit sec, à l'abri d'une quelconque source de chaleur, et des rayons du soleil. Ne pas modifier les gants pour éviter d'altérer leur résistance. Ne pas appliquer de peinture, de dissolvant ou d'adhésif.			
Observations:	Les gants doivent être de la bonne taille et s'ajuster à la main sans être trop serrés ni trop lâches. Les gants doivent toujours être portés avec les mains propres et sèches.			
Matériaux:	PVC (Polychlorure de vinyle)	Temps de pénétration (min.):	> 480	Epaisseur du matériau (mm): 0,35
Protection des yeux:				
PPE:	Écran facial			
Caractéristiques:	Marquage «CE» Catégorie II. Écran protégeant les yeux contre les éclaboussures de liquides.			
Normes CEN:	EN 165, EN 166, EN 167, EN 168			
Maintenance:	La visibilité au travers des lunettes doit être optimale, c'est pourquoi il faut les nettoyer tous les jours et les désinfecter régulièrement, conformément aux instructions du fabricant. S'assurer que les parties mobiles bougement doucement.			
Observations:	Une fois couplés dans la structure, les écrans faciaux doivent avoir un champ de vision d'au moins 150 mm dans la ligne centrale, dans le sens vertical.			
Protection de la peau:				
PPE:	Vêtements de protection			
Caractéristiques:	Marquage «CE» Catégorie II. Les vêtements de protection ne doivent pas être portés trop serrés ou trop lâches, pour ne pas gêner les mouvements de l'utilisateur.			
Normes CEN:	EN 340			
Maintenance:	Appliquer les instructions de lavage et de conservation fournies par le fabricant pour garantir une protection invariable.			

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Observations:	Les vêtements de protection devraient être confortables et protéger contre le risque pour lesquels ils ont été prévus, avec les conditions environnementales, le niveau d'activité de l'utilisateur et le temps d'utilisation prévus.

RUBRIQUE 9: PROPRIÉTÉS PHYSIQUES ET CHIMIQUES.

9.1 Informations sur les propriétés physiques et chimiques essentielles.
État physique: Solid
Couleur: Blanc
Odeur: Inodore
Seuil olfactif: Non applicable/Non disponible en raison de la nature/des propriétés du produit.
Point de fusion: 205 ºC
Point de congélation: Non applicable/Non disponible en raison de la nature/des propriétés du produit.
Point d'ébullition ou point initial d'ébullition et intervalle d'ébullition: Non applicable/Non disponible en raison de la nature/des propriétés du produit.
Inflammabilité: Non applicable/Non disponible en raison de la nature/des propriétés du produit.
Limites inférieure d'explosion: Non applicable/Non disponible en raison de la nature/des propriétés du produit.
Limites supérieure d'explosion: Non applicable/Non disponible en raison de la nature/des propriétés du produit.
Point d'éclair: 100 ºC (Estimation sur la base des indications du Réglement (CE) Nº1272/2008)
Température d'auto-inflammation: Non applicable/Non disponible en raison de la nature/des propriétés du produit.
Température de décomposition: Non applicable/Non disponible en raison de la nature/des propriétés du produit.
pH: 1,18 (1%)
Viscosité cinématique: Non applicable/Non disponible en raison de la nature/des propriétés du produit.
Solubilité: Non applicable/Non disponible en raison de la nature/des propriétés du produit.
Hydro solubilité: 213 g/l
Liposolubilité: Non applicable/Non disponible en raison de la nature/des propriétés du produit.
Coefficient de partage n-octanol/eau (valeur log): Non applicable/Non disponible en raison de la nature/des propriétés du produit.
Pression de vapeur: Non applicable/Non disponible en raison de la nature/des propriétés du produit.
Densité absolue: Non applicable/Non disponible en raison de la nature/des propriétés du produit.
Densité relative: 2.12 (20 ºC)
Densité de vapeur relative: Non applicable/Non disponible en raison de la nature/des propriétés du produit.
Caractéristiques des particules: Non applicable/Non disponible en raison de la nature/des propriétés du produit.

9.2 Autres informations.
Viscosité: Non applicable/Non disponible en raison de la nature/des propriétés du produit.
Propriétés explosives: Non applicable/Non disponible en raison de la nature/des propriétés du produit.
Propriétés comburantes: No aplicable
Point de goutte: Non applicable/Non disponible en raison de la nature/des propriétés du produit.
Scintillation: Non applicable/Non disponible en raison de la nature/des propriétés du produit.

RUBRIQUE 10: STABILITÉ ET RÉACTIVITÉ.

10.1 Réactivité.
Le produit ne présente pas de danger par leur réactivité.

10.2 Stabilité chimique.
Instable en contact avec:
- Bases

10.3 Possibilité de réactions dangereuses.
Peut produire une neutralisation en étant en contact avec des bases.

10.4 Conditions à éviter.
- Eviter le contact avec les bases

10.5 Matières incompatibles.
Eviter les matières suivantes :
- Bases

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10.6 Produits de décomposition dangereux.
Selon les conditions d'utilisation, peuvent se générer les produits suivants :
- Vapeurs ou gaz corrosifs

RUBRIQUE 11: INFORMATIONS TOXICOLOGIQUES.

MÉLANGE IRRITANT. Les projections dans les yeux peuvent provoquer des irritations.
MÉLANGE IRRITANT. Un contact répété ou prolongé avec la peau ou les muqueuses, peut donner lieu à l'apparition de symptômes d'irritations tels que des rougeurs, des phlyctène ou une dermathose. Certains de ces symptômes peuvent ne pas apparaitre immédiatement. Des réactions allergiques de la peau peuvent également se produire.

11.1 Informations sur les classes de danger telles que définies dans le règlement (CE) no 1272/2008.
Un contact prolongé ou répété avec le produit peut donner lieu à une élimination de la graisse de la peau, susceptible de provoquer une dermatose de contact non allergique et permettant l'absorption du produit par la peau.

Information Toxicologique.

Nom	Toxicité aigue			
	Type	Essai	Espèce	Valeur
acide sulfamique CAS No: 5329-14-6 EC No: 226-218-8	Oral	L50	Rat	> 2000 mg/kg
	Cutané	LD50 [1] Study report, 2010.	Rat	>2000 mg/kg bw [1]
	Inhalation			

a) toxicité aiguë;
Données non concluantes pour la classification.

b) corrosion cutanée/irritation cutanée;
Produit classé:
Irritant pour la peau, Catégorie 2: Provoque une irritation cutanée.

c) lésions oculaires graves/irritation oculaire;
Produit classé:
Irritation oculaire, Catégorie 2: Provoque une sévère irritation des yeux.

d) sensibilisation respiratoire ou cutanée;
Données non concluantes pour la classification.

e) mutagénicité sur les cellules germinales;
Données non concluantes pour la classification.

f) cancérogénicité;
Données non concluantes pour la classification.

g) toxicité pour la reproduction;
Données non concluantes pour la classification.

h) toxicité spécifique pour certains organes cibles - exposition unique;
Données non concluantes pour la classification.

i) toxicité spécifique pour certains organes cibles – exposition répétée;
Données non concluantes pour la classification.

j) danger par aspiration.
Données non concluantes pour la classification.

11.2 Informations sur les autres dangers.
Propriétés perturbant le système endocrinien
Ce produit ne contient pas de composants ayant des propriétés perturbant le système endocrinien avec des effets sur la santé humaine.
Autres informations
Il n'existe pas d'information disponible sur d'autres effets indésirables sur la santé.

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RUBRIQUE 12: INFORMATIONS ÉCOLOGIQUES.

12.1 Toxicité.

Nom	Écotoxicité			
	Type	Essai	Espèce	Valeur
acide sulfamique CAS No: 5329-14-6 EC No: 226-218-8	Poissons	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.
	Invertébrés aquatiques	EC50	Daphnia magna	71.6 mg/l (48 h) [1] [1] Study report, 2010.
	Plantes aquatiques	EC50	Desmodesmus subspicatus	48 mg/l (72 h) [1] [1] Study report, 2010. OECD Guideline 201 (Alga, Growth Inhibition Test)

12.2 Persistance et dégradabilité.
Il n'y a pas d'information sur la biodégradabilité.
Il n'y a pas d'information sur la dégradabilité.
Aucune information n'est disponible sur la persistance et la dégradabilité du produit.

12.3 Potentiel de bioaccumulation.
Aucune information n'est disponible sur la bioaccumulation.

12.4 Mobilité dans le sol.
Aucune information n'est disponible sur la mobilité dans le sol.
Éviter tout déversement dans les égouts ou les cours d'eau.
Éviter qu'il ne pénètre dans le sol.

12.5 Résultats des évaluations PBT et vPvB.
Aucune information n'est disponible sur les résultats de l'évaluation PBT et vPvB du produit.

12.6 Propriétés perturbant le système endocrinien.
Ce produit ne contient pas de components avec des propriétés propriétés perturbant le système endocrinien dans l'environnement.

12.7 Autres effets néfastes.
Aucune information n'est disponible sur d'autres effets néfastes pour l'environnement.

RUBRIQUE 13: CONSIDÉRATIONS RELATIVES À L'ÉLIMINATION.

13.1 Méthodes de traitement des déchets.
Il est interdit de le déverser dans les égouts ou cours d'eau. Les résidus et containers vides doivent être manipulés et éliminés en accord avec la législation locale / nationale correspondante en vigueur.
Suivre les dispositions de la Directive 2008/98/CE relative à la gestion des déchets.

RUBRIQUE 14: INFORMATIONS RELATIVES AU TRANSPORT.

Transporter selon les normes ADR/TPC pour le transport routier, les RID par chemin de fer, les IMDG pour le transport maritime et les ICAO/IATA pour le transport aérien.

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Terre: Transport par route: ADR, Transport par chemin de fer: RID.
Documentation de transport: Lettre de port et Instructions écrites.
Mer: Transport par bateau: IMDG.
Documentation de transport: Connaissement d'embarquement.
Air: Transport en avion: IATA/ICAO.
Document de transport: Connaissement aérien.

14.1 Numéro ONU ou numéro d'identification.
Nº ONU: 2967

14.2 Désignation officielle de transport de l'ONU.
Description:
ADR/RID: UN 2967, ACIDE SULFAMIQUE, 8, GE III, (E)
IMDG: UN 2967, ACIDE SULFAMIQUE, 8, GE III
OACI/IATA: UN 2967, ACIDE SULFAMIQUE, 8, GE III

14.3 Classe(s) de danger pour le transport.
Classe(s): 8

14.4 Groupe d'emballage.
Groupe d'emballage: III

14.5 Dangers pour l'environnement.
Contaminant marin: Non
Transport par bateau, FEm – Fiches d'urgence (F – Incendie, S – Dispersions): F-A,S-B

14.6 Précautions particulières à prendre par l'utilisateur.
Etiquettes: 8

Numéro de danger: 80
ADR LQ: 5 kg
IMDG LQ: 5 kg
ICAO LQ: 5 kg

Dispositions pour le transport en vrac ADR:
VC1 Le transport en vrac dans des véhicules bâchés, des conteneurs bâchés ou des conteneurs pour vrac bâchés est autorisé.
VC2 Le transport en vrac dans des véhicules couverts, des conteneurs fermés ou des conteneurs pour vrac fermés est autorisé.
AP7 Le transport en vrac ne doit être effectué qu'en chargement complet.
Procéder conformément au point 6.
Groupe de segregation du Code IMDG: 1 Acides

14.7 Transport maritime en vrac conformément aux instruments de l'OMI.
Le produit n'est pas transporté en vrac.

RUBRIQUE 15: INFORMATIONS RELATIVES À LA RÉGLEMENTATION.

15.1 Réglementations/législation particulières à la substance ou au mélange en matière de sécurité, de santé et d'environnement.
Le produit n'est pas affecté par le Règlement (CE) no 1005/2009 du Parlement européen et du Conseil du 16 septembre 2009 relatif à des substances qui appauvrissent la couche d'ozone.

Composé organique volatil (COV)
Teneur en COV (p/p): 0 %
Teneur en COV: 0 g/l

-Continue à la page suivante.-

Classification du produit en accord avec l'Annexe I de la Directive 2012/18/UE (SEVESO III): N/A
Le produit n'est pas affecté par le Règlement (UE) No 528/2012 relatif à la commercialisation et à l'utilisation des biocides.
Le produit ne se trouve pas affecté par le processus établi dans le Règlement (UE) No 649/2012, relatif à l'exportation et à l'importation de produits chimiques dangereux.

Classe de contamination de l'eau (Allemagne): WGK 1: Peu dangereux pour l'eau. (Auto classé selon le Règlement AwSV)

15.2 Évaluation de la sécurité chimique.
Il n'a pas procédé à une évaluation de la sécurité chimique du produit.
Est disponible un Scénario d'Exposition du produit.

RUBRIQUE 16: AUTRES INFORMATIONS.

Codes de classification:

Aquatic Chronic 3 : Effets chroniques pour le milieu aquatique, Catégorie 3
Eye Irrit. 2 : Irritation oculaire, Catégorie 2
Skin Irrit. 2 : Irritant pour la peau, Catégorie 2

Modifications par rapport à la version précédente:

- Modification de dangers spécifiques (SECTION 2.3).
- Modification des mesures de lutte contre les incendies (SECTION 5.2).
- Modifications des mesures en cas de déversement accidentel (SECTION 6.1).
- Modifications des mesures en cas de déversement accidentel (SECTION 6.2).
- Modification des valeurs des propriétés physico-chimiques (SECTION 9).
- Changement de classification de dangerosité (SECTION 11.1).
- Modification de la classification ADR/IMDG/ICAO/IATA/RID (SECTION 14).
- Changements législatifs nationaux (SECTION 15.1).
- Ajouts abréviations et acronymes (SECTION 16).

Classification et procédure utilisées pour établir la classification des mélanges conformément au règlement (CE) 1272/2008 [CLP]:

Dangers physiques	D'après les données d'essais
Dangers pour la santé	Méthode de calcul
Dangers pour l'environnement	Méthode de calcul

Il est recommandé de suivre une formation basique sur la sécurité et l'hygiène au travail, pour pouvoir manipuler correctement le produit.

Est disponible un Scénario d'Exposition du produit.

Abréviations et acronymes utilisés:
ADR/RID: Accord européen sur le transport des marchandises dangereuses par Route.
AwSV: Règlement d'Installations pour la manipulation de substances dangereuses pour l'eau.
CEN: Comité européen de normalisation.
DMEL: Derived Minimal Effect Level (niveau avec effets secondaires minimums) Niveau d'exposition correspondant à un risque faible, ce risque doit être considéré comme le minimum tolérable.
DNEL: Derived No Effect Level, (niveau sans effets secondaires) niveau d'exposition à la substance en dessous duquel ne sont pas prévus d'effets défavorables.
EC50: Concentration efficace moyenne.
PPE: Équipements de protection individuelle.

-Continue à la page suivante.-

IATA: Association Internationale de Transport Aérien.
OACI: Organisation de l'aviation civile internationale.
IMDG: Code Maritime International des Marchandises Dangereuses.
LC50: Concentration létale, 50%.
LD50: Dose létale, 50%.
PNEC: Predicted No Effect Concentration, (Concentration prévue sans effet) concentration de la substance en dessous de laquelle ne sont pas prévus d'effets défavorables dans le comportement environnemental.
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer.
WGK: Classes de danger lié à l'eau.

Principales références de la litterature et sources de données:
http://eur-lex.europa.eu/homepage.html
http://echa.europa.eu/
Règlement (UE) 2020/878.
Règlement (CE) No 1907/2006.
Règlement (UE) No 1272/2008.

Les informations contenues dans cette fiche de Sécurité ont été rédigées conformément au RÈGLEMENT (UE) 2020/878 DE LA COMMISSION du 18 juin 2020 modifiant l'Annexe II du règlement (CE) no 1907/2006 du Parlement européen et du Conseil concernant l'enregistrement, l'évaluation et l'autorisation des substances et mélanges chimiques (REACH).

L'information contenue dans cette Fiche de Données de Sécurité du Produit se base sur les connaissances actuelles relatives à ce produit ainsi que sur les lois nationales et européennes en vigueur, sachant que les conditions de travail de ses utilisateurs ne nous sont pas connues et échappent ainsi à notre contrôle.Le produit doit en aucun cas être utilisé à des fins autres que celles pour lesquelles il a été conçu et préparé, il ne peut être utilisé sans connaissance préalable et écrite des instructions relatives à son maniement. Il incombe à l'utilisateur de prendre toutes les mesures nécessaires afin de suivre et respecter les exigences prévues par la loi.

-Fin de la fiche de données de sécurité.-

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 ℃
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 ℃
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 ℃
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	≥ 20m^3
Inhalation rate:	1.37 m^3 / hour
Temperature:	Unless otherwise stated assumes use at ambient temperatures
Contact area:	1000 cm^3
Other operational conditions:	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 ℃
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	≥ 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 (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 ℃
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	≥ 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 ℃
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	≥ 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 ℃
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 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	≥ 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 (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 ℃

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 ℃
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