

Sicherheitsdatenblatt
gemäß 1907/2006/EG, Artikel 31

Druckdatum: 18.09.2017

Versionsnummer 5

überarbeitet am: 18.09.2017

1 Bezeichnung des Stoffs beziehungsweise des Gemischs und des Unternehmens

- **Produktidentifikator**
- **Handelsname:** MERPIN 9020
- **Artikelnummer:** 601008
- **Relevante identifizierte Verwendungen des Stoffs oder Gemischs und Verwendungen, von denen abgeraten wird**
Keine weiteren relevanten Informationen verfügbar.
- **Verwendung des Stoffes / des Gemisches** Hilfsmittel
- **Verwendungen, von denen abgeraten wird** Keine weiteren relevanten Informationen verfügbar.
- **Einzelheiten zum Lieferanten, der das Sicherheitsdatenblatt bereitstellt**
- **Hersteller/Lieferant:**
Carpetex Lederhilfsmittel GmbH
Am Selder 25
D-47906 Kempen
DEUTSCHLAND
Tel.: 02152 8999 55
Fax: 02152 51 67 51
E-Mail: info@carpetex.com
- **Auskunftgebender Bereich:** Abteilung Produktsicherheit
- **Notrufnummer:**
Giftinformationszentrum Nord 24h-Auskunft: +49 551 19240
Während der normalen Öffnungszeiten: +49 2152 8999 55

2 Mögliche Gefahren

- **Einstufung des Stoffs oder Gemischs**
- **Einstufung gemäß Verordnung (EG) Nr. 1272/2008**



Acute Tox. 4 H302 Gesundheitsschädlich bei Verschlucken.
Acute Tox. 4 H312 Gesundheitsschädlich bei Hautkontakt.
Skin Sens. 1 H317 Kann allergische Hautreaktionen verursachen.

- **Kennzeichnungselemente**
- **Kennzeichnung gemäß Verordnung (EG) Nr. 1272/2008**
Das Produkt ist gemäß CLP-Verordnung eingestuft und gekennzeichnet.
- **Gefahrenpiktogramme**



- **Signalwort** Achtung
- **Gefahrbestimmende Komponenten zur Etikettierung:**
wässrige Lösung, enthält:
Natriumthioglykolat
- **Gefahrenhinweise**
H302+H312 Gesundheitsschädlich bei Verschlucken oder Hautkontakt.
H317 Kann allergische Hautreaktionen verursachen.
- **Sicherheitshinweise**
P261 Einatmen von Staub/Rauch/Gas/Nebel/Dampf/Aerosol vermeiden.
P280 Schutzhandschuhe/Schutzkleidung/Augenschutz/Gesichtsschutz tragen.

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P301+P312 BEI VERSCHLUCKEN: Bei Unwohlsein GIFTINFORMATIONSZENTRUM/Arzt anrufen.
P302+P352 BEI BERÜHRUNG MIT DER HAUT: Mit viel Wasser und Seife waschen.
P333+P313 Bei Hautreizung oder -ausschlag: Ärztlichen Rat einholen/ärztliche Hilfe hinzuziehen.

- **Sonstige Gefahren**
- **Ergebnisse der PBT- und vPvB-Beurteilung**
- **PBT:** Nicht anwendbar.
- **vPvB:** Nicht anwendbar.

3 Zusammensetzung/Angaben zu Bestandteilen

- **Chemische Charakterisierung: Gemische**
- **Beschreibung:** wässrige Lösung

· **Gefährliche Inhaltsstoffe:**

CAS: 367-51-1	Natriumthioglykolat	25-50%
EINECS: 206-696-4	☠ Acute Tox. 3, H301; ☠ Met. Corr.1, H290; ☠ Acute	
Reg.nr.: 01-2119968564-24-xxxx	Tox. 4, H312; Skin Sens. 1, H317	

- **Zusätzliche Hinweise:**
Der Wortlaut der angeführten Gefahrenhinweise ist dem Abschnitt 16 zu entnehmen.

4 Erste-Hilfe-Maßnahmen

- **Beschreibung der Erste-Hilfe-Maßnahmen**
- **Nach Einatmen:**
Reichlich Frischluftzufuhr und sicherheitshalber Arzt aufsuchen.
Bei Bewußtlosigkeit Lagerung und Transport in stabiler Seitenlage.
- **Nach Hautkontakt:** Sofort mit Wasser und Seife abwaschen und gut nachspülen.
- **Nach Augenkontakt:**
Augen bei geöffnetem Lidspalt mehrere Minuten mit fließendem Wasser spülen.
- **Nach Verschlucken:**
Mund ausspülen.
Kein Erbrechen herbeiführen, sofort Arzthilfe zuziehen.
- **Hinweise für den Arzt:**
- **Wichtigste akute und verzögert auftretende Symptome und Wirkungen**
Keine weiteren relevanten Informationen verfügbar.
- **Hinweise auf ärztliche Soforthilfe oder Spezialbehandlung**
Aspirationsgefahr. Vor dem Erbrechen oder vor der Magenspülung gegebenenfalls Antischaummittel geben.

5 Maßnahmen zur Brandbekämpfung

- **Löschmittel**
- **Geeignete Löschmittel:**
CO₂, Löschpulver oder Wassersprühstrahl. Größeren Brand mit Wassersprühstrahl oder alkoholbeständigem Schaum bekämpfen.
- **Besondere vom Stoff oder Gemisch ausgehende Gefahren**
Bei einem Brand kann freigesetzt werden:
organische Zersetzungsprodukte
Kohlenoxide (CO_x)
Schwefeldioxid (SO₂)
- **Hinweise für die Brandbekämpfung**
- **Besondere Schutzausrüstung:** Wenn nötig umluftunabhängiges Atemschutzgerät anlegen.

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6 Maßnahmen bei unbeabsichtigter Freisetzung

- **Personenbezogene Vorsichtsmaßnahmen, Schutzausrüstungen und in Notfällen anzuwendende Verfahren**
Besondere Rutschgefahr durch ausgelaufenes/verschüttetes Produkt.
Persönliche Schutzkleidung tragen.
Berührung mit den Augen und der Haut vermeiden.
- **Umweltschutzmaßnahmen:**
Nicht in die Kanalisation/Oberflächenwasser/Grundwasser gelangen lassen.
- **Methoden und Material für Rückhaltung und Reinigung:**
Mit flüssigkeitsbindendem Material (Sand, Kieselgur, Säurebinder, Universalbinder, Sägemehl) aufnehmen.
Kontaminiertes Material als Abfall nach Abschnitt 13 entsorgen.
Für ausreichende Lüftung sorgen.
- **Verweis auf andere Abschnitte**
Informationen zur sicheren Handhabung siehe Abschnitt 7.
Informationen zur persönlichen Schutzausrüstung siehe Abschnitt 8.
Informationen zur Entsorgung siehe Abschnitt 13.

7 Handhabung und Lagerung

- **Handhabung:**
- **Schutzmaßnahmen zur sicheren Handhabung**
Für gute Belüftung/Absaugung am Arbeitsplatz sorgen.
Behälter mit Vorsicht öffnen und handhaben.
Aerosolbildung vermeiden.
Persönliche Schutzkleidung tragen.
Im Arbeitsbereich nicht essen, trinken oder rauchen.
- **Hinweise zum Brand- und Explosionsschutz:** Keine besonderen Maßnahmen erforderlich.
- **Bedingungen zur sicheren Lagerung unter Berücksichtigung von Unverträglichkeiten**
- **Lagerung:**
- **Anforderung an Lagerräume und Behälter:** Nur im Originalgebinde aufbewahren.
- **Zusammenlagerungshinweise:** Nicht erforderlich.
- **Weitere Angaben zu den Lagerbedingungen:** Keine.
- **Lagerklasse:** Brennbare Flüssigkeit - Lagerklasse 10
- **Klassifizierung nach Betriebssicherheitsverordnung (BetrSichV):** -
- **Spezifische Endanwendungen** Keine weiteren relevanten Informationen verfügbar.

8 Begrenzung und Überwachung der Exposition/Persönliche Schutzausrüstungen

- **Zusätzliche Hinweise zur Gestaltung technischer Anlagen:**
Keine weiteren Angaben, siehe Abschnitt 7.
- **Zu überwachende Parameter**
- **Bestandteile mit arbeitsplatzbezogenen, zu überwachenden Grenzwerten:**
keine Daten verfügbar

· **DNEL-Werte**

367-51-1 Natriumthioglykolat

Dermal	DNEL (Langfristig, systemische Wirkung)	2,06 mg/kg/d (Arbeiter)
	DNEL (Langfristig, lokale Wirkung)	0,011 mg/kg/d (Arbeiter)
	DNEL (Akut, systemische Wirkung)	0,05 mg/kg/d (Verbraucher)
Inhalativ	DNEL (Langfristig, systemische Wirkung)	1,41 mg/m ³ (Arbeiter)

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· PNEC-Werte

367-51-1 Natriumthioglykolat

PNEC	0,038 mg/l (Süßwasser)
	0,0038 mg/l (Meerwasser)
	0,38 mg/l (Wasser (intermittierende Freisetzung))

- **Zusätzliche Hinweise:** Als Grundlage dienen die bei der Erstellung gültigen Listen.
- **Begrenzung und Überwachung der Exposition**
- **Persönliche Schutzausrüstung:**
- **Allgemeine Schutz- und Hygienemaßnahmen:**
 Von Nahrungsmitteln, Getränken und Futtermitteln fernhalten.
 Beschmutzte, getränkte Kleidung sofort ausziehen.
 Vor den Pausen und bei Arbeitsende Hände waschen.
 Bei der Arbeit nicht essen, trinken, rauchen, schnupfen.
 Körperschutzmittel sind in Ihrer Ausführung in Abhängigkeit von Expositionsdauer, Gefahrstoffkonzentration und -menge arbeitsplatzspezifisch auszuwählen. Die Chemikalienbeständigkeit der Schutzmittel ist mit deren Lieferanten abzuklären.
- **Atemschutz:**
 Bei kurzzeitiger oder geringer Belastung Atemfiltergerät; bei intensiver bzw. längerer Exposition umluftunabhängiges Atemschutzgerät verwenden.
- **Handschutz:**



Schutzhandschuhe

- **Handschuhmaterial**
 z.B. Nitrilkautschuk
 Empfohlene Materialstärke: $\geq 0,5$ mm
- **Durchdringungszeit des Handschuhmaterials**
 Für das Gemisch nachfolgend genannter Chemikalien muss die Durchbruchzeit mindestens 120 Minuten (Permeation gemäß EN 374 Teil 3: Level 4) betragen.
- **Augenschutz:**



Dichtschließende Schutzbrille (EN 166)

- **Körperschutz:** Arbeitsschutzkleidung

9 Physikalische und chemische Eigenschaften

· Angaben zu den grundlegenden physikalischen und chemischen Eigenschaften

· Allgemeine Angaben

· Aussehen:

Form:	Lösung
Farbe:	Violett
Geruch:	Charakteristisch
Geruchsschwelle:	Nicht bestimmt.

· pH-Wert (10 g/l) bei 20 °C: 6,5 - 8,5

· Zustandsänderung

Schmelzpunkt/Gefrierpunkt:	Nicht bestimmt.
Siedebeginn und Siedebereich:	Nicht bestimmt.

· Flammpunkt: Nicht bestimmt.

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· Entzündlichkeit:	Nicht anwendbar.
· Zündtemperatur:	
· Zersetzungstemperatur:	Nicht bestimmt.
· Selbstentzündungstemperatur:	Das Produkt ist nicht selbstentzündlich.
· Explosive Eigenschaften:	Das Produkt ist nicht explosionsgefährlich.
· Explosionsgrenzen:	
Untere:	Nicht bestimmt.
Obere:	Nicht bestimmt.
· Dampfdruck:	Nicht bestimmt.
· Dichte bei 20 °C:	1,28 g/cm ³
· Relative Dichte	Nicht bestimmt.
· Dampfdichte	Nicht bestimmt.
· Verdampfungsgeschwindigkeit	Nicht bestimmt.
· Löslichkeit in / Mischbarkeit mit Wasser:	Vollständig mischbar
· Verteilungskoeffizient: n-Octanol/Wasser:	Nicht bestimmt.
· Viskosität:	
Dynamisch:	Nicht bestimmt.
Kinematisch:	Nicht bestimmt.
· Lösemittelgehalt:	
Organische Lösemittel:	0,0 %
Wasser:	54,0 %
· Sonstige Angaben	Keine weiteren relevanten Informationen verfügbar.

10 Stabilität und Reaktivität

- **Reaktivität** Produkt ist unter normalen Umgebungbedingungen stabil.
- **Chemische Stabilität**
- **Thermische Zersetzung / zu vermeidende Bedingungen:** Keine Zersetzung bei bestimmungsgemäßer Verwendung.
- **Möglichkeit gefährlicher Reaktionen** Keine gefährlichen Reaktionen bekannt.
- **Zu vermeidende Bedingungen** Keine weiteren relevanten Informationen verfügbar.
- **Unverträgliche Materialien:** Keine weiteren relevanten Informationen verfügbar.
- **Gefährliche Zersetzungsprodukte:** Keine gefährlichen Zersetzungsprodukte bekannt.

11 Toxikologische Angaben

- **Angaben zu toxikologischen Wirkungen**
- **Akute Toxizität**
Gesundheitsschädlich bei Verschlucken oder Hautkontakt.

· **Einstufungsrelevante LD/LC50-Werte:**

Oral	LD50	301-2000 mg/kg (Ratte)
Dermal	LD50	2000 mg/kg (Ratte)

- **Primäre Reizwirkung:**
- **Ätz-/Reizwirkung auf die Haut** Keine Reizwirkung.
- **Schwere Augenschädigung/-reizung** Keine Reizwirkung.

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- **Sensibilisierung der Atemwege/Haut**
Kann allergische Hautreaktionen verursachen.
- **CMR-Wirkungen (krebserzeugende, erbgutverändernde und fortpflanzungsgefährdende Wirkung)**
- **Keimzell-Mutagenität** Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.
- **Karzinogenität** Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.
- **Reproduktionstoxizität** Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.
- **Spezifische Zielorgan-Toxizität bei einmaliger Exposition**
Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.
- **Spezifische Zielorgan-Toxizität bei wiederholter Exposition**
Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.
- **Aspirationsgefahr** Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.

12 Umweltbezogene Angaben

- **Toxizität**
- **Aquatische Toxizität:** Keine weiteren relevanten Informationen verfügbar.
- **Persistenz und Abbaubarkeit**
leicht biologisch abbaubar
Abbaurrate >70% Zeit (d) 28 Tage Methode OECD 301D
- **Sonstige Hinweise:**
bezogen auf Thioglykolsäure
Die Aussage wurde von Produkten ähnlicher Struktur oder Zusammensetzung abgeleitet.
- **Verhalten in Umweltkompartimenten:**
- **Bioakkumulationspotenzial** Keine weiteren relevanten Informationen verfügbar.
- **Mobilität im Boden** Keine weiteren relevanten Informationen verfügbar.
- **Weitere ökologische Hinweise:**
- **Allgemeine Hinweise:**
Wassergefährdungsklasse 1 (Selbsteinstufung): schwach wassergefährdend
Nicht unverdünnt bzw. in größeren Mengen in das Grundwasser, in Gewässer oder in die Kanalisation gelangen lassen.
- **Ergebnisse der PBT- und vPvB-Beurteilung**
- **PBT:** Nicht anwendbar.
- **vPvB:** Nicht anwendbar.
- **Andere schädliche Wirkungen** Keine weiteren relevanten Informationen verfügbar.

13 Hinweise zur Entsorgung

- **Verfahren der Abfallbehandlung**
- **Empfehlung:**
Kann unter Beachtung der notwendigen technischen Vorschriften nach Rücksprache mit dem Entsorger und der zuständigen Behörde mit Hausmüll zusammen verbrannt werden.
- **Abfallschlüsselnummer:**
Die Angabe einer Abfallschlüsselnummer gemäß europäischem Abfallkatalog (EAK) ist nicht möglich, da erst der Verwendungszweck durch den Verbraucher eine Zuordnung erlaubt. Die Abfallschlüsselnummer ist in Absprache mit dem regionalen Entsorger festzulegen.
- **Ungereinigte Verpackungen:**
- **Empfehlung:** Entsorgung gemäß den behördlichen Vorschriften.
- **Empfohlenes Reinigungsmittel:** Wasser, gegebenenfalls mit Zusatz von Reinigungsmitteln.

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14 Angaben zum Transport

· UN-Nummer	
· ADR, ADN, IMDG, IATA	entfällt
· Ordnungsgemäße UN-Versandbezeichnung	
· ADR, ADN, IMDG, IATA	entfällt
· Transportgefahrenklassen	
· ADR, ADN, IMDG, IATA	
· Klasse	entfällt
· Verpackungsgruppe	
· ADR, IMDG, IATA	entfällt
· Umweltgefahren:	
· Marine pollutant:	Nein
· Besondere Vorsichtsmaßnahmen für den Verwender	Nicht anwendbar.
· Massengutbeförderung gemäß Anhang II des MARPOL-Übereinkommens und gemäß IBC-Code	Nicht anwendbar.
· UN "Model Regulation":	entfällt

15 Rechtsvorschriften

- **Vorschriften zu Sicherheit, Gesundheits- und Umweltschutz/spezifische Rechtsvorschriften für den Stoff oder das Gemisch**
- **VERORDNUNG (EG) Nr. 1907/2006 ANHANG XVII** Beschränkungsbedingungen: 3
- **Nationale Vorschriften:**
- **Wassergefährdungsklasse:** WGK 1 (Selbsteinstufung): schwach wassergefährdend.
- **Stoffsicherheitsbeurteilung:** Eine Stoffsicherheitsbeurteilung wurde nicht durchgeführt.

16 Sonstige Angaben

Die Angaben stützen sich auf den heutigen Stand unserer Kenntnisse, sie stellen jedoch keine Zusicherung von Produkteigenschaften dar und begründen kein vertragliches Rechtsverhältnis.

- **Relevante Sätze**
H290 Kann gegenüber Metallen korrosiv sein.
H301 Giftig bei Verschlucken.
H312 Gesundheitsschädlich bei Hautkontakt.
H317 Kann allergische Hautreaktionen verursachen.
- **Datenblatt ausstellender Bereich:** Abteilung Produktsicherheit
- **Ansprechpartner:** Markus Hoffmann
- **Abkürzungen und Akronyme:**
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)
LC50: Lethal concentration, 50 percent

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LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Met. Corr.1: Korrosiv gegenüber Metallen – Kategorie 1
Acute Tox. 3: Akute Toxizität – Kategorie 3
Acute Tox. 4: Akute Toxizität – Kategorie 4
Skin Sens. 1: Sensibilisierung der Haut – Kategorie 1

• * **Daten gegenüber der Vorversion geändert**

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Substance name: Sodium thioglycolate

CAS number: 367-51-1

EC number: 206-696-4

Please note, that the exposure scenarios are for the pure substance.

For further information, please contact us at info@wall-chemie.com Keyword REACH NaTG - Exposure Scenarios

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Life Cycle description

Manufacture

ERC 1: Manufacture of substances

PROC 3: Use in closed batch process (synthesis or formulation)

PROC 4: Use in batch and other process (synthesis) where opportunity for exposure arises

Manufacture	Environmental release category:	Process category:
Manufactureing	ERC 1	PROC 3, PROC 4

Manufacture - ERC 1

Closed system, no release to water, air or soil.

Waste containing substance is incinerated on site. No waste containing NaTG is expected to be generated from incineration.

Worker contributing scenario 1: Manufacture of the substance (PROC 3)

Conditions of use [Method]

Product (article) characteristics

- Concentration of substance in mixture: Substance as such [TRA Worker v3]

Amount used (or contained in articles), frequency and duration of use/exposure

- Duration of activity: < 1 hour [TRA Worker v3]

Technical and organisational conditions and measures

- General ventilation: Good general ventilation (3-5 air changes per hour) [TRA Worker v3]
- Containment: Closed batch process with occasional controlled exposure [TRA Worker v3]
- Local exhaust ventilation: no [Effectiveness Inhal: 0%] [TRA Worker v3]
- Occupational Health and Safety Management System: Advanced [TRA Worker v3]

Conditions and measures related to personal protection, hygiene and health evaluation

- Dermal Protection: Yes (chemically resistant gloves conforming to EN374 with specific activity training) [Effectiveness Dermal: 95%] [TRA Worker v3]
- Respiratory Protection: Yes (Respirator with APF of 10) [Effectiveness Inhal: 90%] [TRA Worker v3]

Other conditions affecting workers exposure

- Place of use: Indoor [TRA Worker v3]
- Process temperature (for liquid): ≤ 40 °C [TRA Worker v3]
- Skin surface potentially exposed: One hand face only (240 cm²) [TRA Worker v3]

Worker contributing scenario 2: Manufacture of the substance (PROC 4)

Conditions of use [Method]

Product (article) characteristics

- Concentration of substance in mixture: Substance as such [TRA Worker v3]

Amount used (or contained in articles), frequency and duration of use/exposure

- Duration of activity: < 4 hours [TRA Worker v3]

Technical and organisational conditions and measures

- General ventilation: Good general ventilation (3-5 air changes per hour) [TRA Worker v3]
- Containment: Semi-closed process with occasional controlled exposure [TRA Worker v3]

Anhang zum

Sicherheitsdatenblatt

gemäß 1907/2006/EG, (VO (EU) Nr. 453/2010)

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Stoffsicherheitsbeurteilung

Natriumthioglykolat

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- Local exhaust ventilation: yes [Effectiveness Inhal: 90%] [TRA Worker v3]
 - Local exhaust ventilation (for dermal): yes [Effectiveness Dermal: 90%] [TRA Worker v3]
 - Occupational Health and Safety Management System: Advanced [TRA Worker v3]
- Conditions and measures related to personal protection, hygiene and health evaluation**
- Dermal Protection: Yes (chemically resistant gloves conforming to EN374 with basic employee training) [Effectiveness Dermal: 90%] [TRA Worker v3]
 - Respiratory Protection: Yes (Respirator with APF of 10) [Effectiveness Inhal:90%] [TRA Worker v3]
 - Place of use: Indoor [TRA Worker v3]
 - Process temperature (for liquid): <= 40 °C [TRA Worker v3]
 - Skin surface potentially exposed: Two hands face (480 cm²) [TRA Worker v3]

Formulation

ERC 2: Formulation of preparations

PROC 3: Use in closed batch process (synthesis or formulation)

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 9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing)

Formulation	Environmental release category:	Process category:
Formulation of aqueous mixtures	ERC 2	PROC 3, PROC 5, PROC 8a, PROC 9

Formulation of aqueous mixtures – ERC 2

Formulation refers to the mixing of the raw material with an adequate amount of water setting different concentrations properly and filling into containers in dedicated facilities.

No release to water, air or soil.

Substance in waste comes from cleaning fluids, if at all (release factor to waste from the process: 1%).

Worker contributing scenario 1: Formulation of the product (aqueous solution) (PROC 3)

Conditions of use [Method]

Product (article) characteristics

- Concentration of substance in mixture: Substance as such [TRA Worker v3]

Amount used (or contained in articles), frequency and duration of use/exposure

- Duration of activity: < 4 hours [TRA Worker v3]

Technical and organisational conditions and measures

- General ventilation: Good general ventilation (3-5 air changes per hour) [TRA Worker v3]
- Containment: Closed batch process with occasional controlled exposure [TRA Worker v3]
- Local exhaust ventilation: yes [Effectiveness Inhal: 90%] [TRA Worker v3]
- Local exhaust ventilation (for dermal): yes [Effectiveness Dermal: 90%] [TRA Worker v3]
- Occupational Health and Safety Management System: Advanced [TRA Worker v3]

Conditions and measures related to personal protection, hygiene and health evaluation

- Dermal Protection: Yes (chemically resistant gloves conforming to EN374) [Effectiveness Dermal: 80%] [TRA Worker v3]
- Respiratory Protection: No [Effectiveness Inhal: 0%] [TRA Worker v3]

Other conditions affecting workers exposure

- Place of use: Indoor [TRA Worker v3]
- Process temperature (for liquid): ≤ 40 °C [TRA Worker v3]
- Skin surface potentially exposed: One hand face only (240 cm²) [TRA Worker v3]

Worker contributing scenario 2: Mixing in a batch process (PROC 5)**Conditions of use [Method]****Product (article) characteristics**

- Concentration of substance in mixture: Substance as such [TRA Worker v3]

Amount used (or contained in articles), frequency and duration of use/exposure

- Duration of activity: < 4 hours [TRA Worker v3]

Technical and organisational conditions and measures

- General ventilation: Good general ventilation (3-5 air changes per hour) [TRA Worker v3]
- Containment: No [TRA Worker v3]
- Local exhaust ventilation: yes [Effectiveness Inhal: 90%] [TRA Worker v3]
- Local exhaust ventilation (for dermal): yes [Effectiveness Dermal: 90%] [TRA Worker v3]
- Occupational Health and Safety Management System: Advanced [TRA Worker v3]

Conditions and measures related to personal protection, hygiene and health evaluation

- Dermal Protection: Yes (chemically resistant gloves conforming to EN374 with specific activity training) [Effectiveness Dermal: 95%] [TRA Worker v3]
- Respiratory Protection: Yes (Respirator with APF of 10) [Effectiveness Inhal: 90%] [TRA Worker v3]

Other conditions affecting workers exposure

- Place of use: Indoor [TRA Worker v3]
- Process temperature (for liquid): ≤ 40 °C [TRA Worker v3]
- Skin surface potentially exposed: Two hands face (480 cm²) [TRA Worker v3]

Worker contributing scenario 3: Transfer of the substance (large amounts) (PROC 8a)**Conditions of use [Method]** Covers also transfer of process waste to storage containers. [Method]**Product (article) characteristics**

- Concentration of substance in mixture: Substance as such [TRA Worker v3]

Amount used (or contained in articles), frequency and duration of use/exposure

- Duration of activity: < 4 hours [TRA Worker v3]

Technical and organisational conditions and measures

- General ventilation: Good general ventilation (3-5 air changes per hour) [TRA Worker v3]
- Containment: No [TRA Worker v3]
- Local exhaust ventilation: yes [Effectiveness Inhal: 90%] [TRA Worker v3]
- Local exhaust ventilation (for dermal): yes [Effectiveness Dermal: 90%] [TRA Worker v3]
- Occupational Health and Safety Management System: Advanced [TRA Worker v3]

Conditions and measures related to personal protection, hygiene and health evaluation

- Dermal Protection: Yes (chemically resistant gloves conforming to EN374 with basic employee training) [Effectiveness Dermal: 90%] [TRA Worker v3]
- Respiratory Protection: Yes (Respirator with APF of 10) [Effectiveness Inhal: 90%] [TRA Worker v3]

Other conditions affecting workers exposure

- Place of use: Indoor [TRA Worker v3]
- Process temperature (for liquid): ≤ 40 °C [TRA Worker v3]
- Skin surface potentially exposed: Two hands (960 cm²) [TRA Worker v3]

Worker contributing scenario 4: Transfer of the substance (small amounts) (PROC 9)**Conditions of use [Method]****Product (article) characteristics**

- Concentration of substance in mixture: Substance as such [TRA Worker v3]

Amount used (or contained in articles), frequency and duration of use/exposure

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- Duration of activity: < 4 hours [TRA Worker v3]

Technical and organisational conditions and measures

- General ventilation: Enhanced general ventilation (5-10 air changes per hour) [TRA Worker v3]
- Containment: Semi-closed process with occasional controlled exposure [TRA Worker v3]
- Local exhaust ventilation: yes [Effectiveness Inhal: 90%] [TRA Worker v3]
- Local exhaust ventilation (for dermal): yes [Effectiveness Dermal: 90%] [TRA Worker v3]
- Occupational Health and Safety Management System: Advanced [TRA Worker v3]

Conditions and measures related to personal protection, hygiene and health evaluation

- Dermal Protection: Yes (chemically resistant gloves conforming to EN374 with basic employee training) [Effectiveness Dermal: 90%] [TRA Worker v3]
- Respiratory Protection: Yes (Respirator with APF of 10) [Effectiveness Inhal: 90%] [TRA Worker v3]

Other conditions affecting workers exposure

- Place of use: Indoor [TRA Worker v3]
- Process temperature (for liquid): ≤ 40 °C [TRA Worker v3]
- Skin surface potentially exposed: Two hands face (480 cm²) [TRA Worker v3]

Uses at industrial sites

- ERC 4: Industrial use of processing aids in processes and products, not becoming part of articles
- ERC 6a: Industrial use resulting in manufacture of another substance (use of intermediates)
- ERC 6b: Industrial use of reactive processing aids
- PROC 3: Use in closed batch process (synthesis or formulation)
- 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
- PC 23: Leather tanning, dye, finishing, impregnation and care products

Uses at industrial sites	Environmental release category:	Process category:	Product category formulated:
Leather processing	ERC 4	PROC 8a, PROC 8b, PROC 9 PROC 15	PC 23
Leather processing – Use as an intermediate at industrial sites	ERC 6a	PROC 3, PROC 8b, PROC 15	PC 23
Leather processing – Use as processing aid at industrial sites	ERC 6b	PROC 8a, PROC 8b, PROC 9, PROC 10	PC 23

Leather processing – ERC 4

The processing of leather is a well-controlled industrial approach. This scenario covers the industrial use of NaTG in the processing of leather.

No direct release to water, air or soil.

No direct release to waste of NaTG can be assumed (Release factor to waste from the process: 0%).

Worker contributing scenario 1: Transfer of the substance (large amounts and non-dedicated facilities) (PROC 8a)

Conditions of use Covers also transfer of process waste to storage containers. **[Method]**

Product (article) characteristics

- Concentration of substance in mixture: Substance as such [TRA Worker v3]

Amount used (or contained in articles), frequency and duration of use/exposure

- Duration of activity: < 4 hours [TRA Worker v3]

Technical and organisational conditions and measures

- General ventilation: Good general ventilation (3-5 air changes per hour) [TRA Worker v3]
- Containment: No [TRA Worker v3]
- Local exhaust ventilation: yes [Effectiveness Inhal: 90%] [TRA Worker v3]
- Local exhaust ventilation (for dermal): yes [Effectiveness Dermal: 90%] [TRA Worker v3]
- Occupational Health and Safety Management System: Advanced [TRA Worker v3]

Conditions and measures related to personal protection, hygiene and health evaluation

- Dermal Protection: Yes (chemically resistant gloves conforming to EN374 with basic employee training) [Effectiveness Dermal: 90%] [TRA Worker v3]
- Respiratory Protection: Yes (Respirator with APF of 10) [Effectiveness Inhal: 90%] [TRA Worker v3]

Other conditions affecting workers exposure

- Place of use: Indoor [TRA Worker v3]
- Process temperature (for liquid): <= 40 °C [TRA Worker v3]
- Skin surface potentially exposed: Two hands (960 cm²) [TRA Worker v3]

Worker contributing scenario 2: Transfer of the substance (large amounts and dedicated facilities) (PROC 8b)

Conditions of use [Method]

Product (article) characteristics

- Concentration of substance in mixture: Substance as such [TRA Worker v3]

Amount used (or contained in articles), frequency and duration of use/exposure

- Duration of activity: < 4 hours [TRA Worker v3]

Technical and organisational conditions and measures

- General ventilation: Good general ventilation (3-5 air changes per hour) [TRA Worker v3]
- Containment: Semi-closed process with occasional controlled exposure [TRA Worker v3]
- Local exhaust ventilation: yes [Effectiveness Inhal: 95%] [TRA Worker v3]
- Local exhaust ventilation (for dermal): yes [Effectiveness Dermal: 95%] [TRA Worker v3]
- Occupational Health and Safety Management System: Advanced [TRA Worker v3]

Conditions and measures related to personal protection, hygiene and health evaluation

- Dermal Protection: Yes (chemically resistant gloves conforming to EN374 with basic employee training) [Effectiveness Dermal: 90%] [TRA Worker v3]
- Respiratory Protection: Yes (Respirator with APF of 10) [Effectiveness Inhal: 90%] [TRA Worker v3]

Other conditions affecting workers exposure

- Place of use: Indoor [TRA Worker v3]
- Process temperature (for liquid): <= 40 °C [TRA Worker v3]
- Skin surface potentially exposed: Two hands (960 cm²) [TRA Worker v3]

Worker contributing scenario 3: Filling small Containers in dedicated lines (PROC 9)

Conditions of use [Method]

Product (article) characteristics

- Concentration of substance in mixture: Substance as such [TRA Worker v3]

Amount used (or contained in articles), frequency and duration of use/exposure

- Duration of activity: < 4 hours [TRA Worker v3]

Technical and organisational conditions and measures

- General ventilation: Good general ventilation (3-5 air changes per hour) [TRA Worker v3]
- Containment: Semi-closed process with occasional controlled exposure [TRA Worker v3]
- Local exhaust ventilation: yes [Effectiveness Inhal: 90%] [TRA Worker v3]
- Local exhaust ventilation (for dermal): yes [Effectiveness Dermal: 90%] [TRA Worker v3]
- Occupational Health and Safety Management System: Advanced [TRA Worker v3]

Conditions and measures related to personal protection, hygiene and health evaluation

- Dermal Protection: Yes (chemically resistant gloves conforming to EN374 with basic employee training) [Effectiveness Dermal: 90%] [TRA Worker v3]
- Respiratory Protection: Yes (Respirator with APF of 10) [Effectiveness Inhal: 90%] [TRA Worker v3]

Other conditions affecting workers exposure

- Place of use: Indoor [TRA Worker v3]
- Process temperature (for liquid): <= 40 °C [TRA Worker v3]
- Skin surface potentially exposed: Two hands face (480 cm²) [TRA Worker v3]

Worker contributing scenario 4: Laboratory agent (PROC 15)

Conditions of use [Method]

Product (article) characteristics

- Concentration of substance in mixture: Substance as such [TRA Worker v3]

Amount used (or contained in articles), frequency and duration of use/exposure

- Duration of activity: < 4 hours [TRA Worker v3]

Technical and organisational conditions and measures

- General ventilation: Good general ventilation (3-5 air changes per hour) [TRA Worker v3]
- Containment: No [TRA Worker v3]
- Local exhaust ventilation: yes [Effectiveness Inhal: 90%] [TRA Worker v3]
- Local exhaust ventilation (for dermal): yes [Effectiveness Dermal: 90%] [TRA Worker v3]
- Occupational Health and Safety Management System: Advanced [TRA Worker v3]

Conditions and measures related to personal protection, hygiene and health evaluation

- Dermal Protection: Yes (chemically resistant gloves conforming to EN374 with basic employee training) [Effectiveness Dermal: 90%] [TRA Worker v3]
- Respiratory Protection: Yes (Respirator with APF of 10) [Effectiveness Inhal: 90%] [TRA Worker v3]

Other conditions affecting workers exposure

- Place of use: Indoor [TRA Worker v3]
- Process temperature (for liquid): <= 40 °C [TRA Worker v3]
- Skin surface potentially exposed: One hand face only (240 cm²) [TRA Worker v3]

Leather processing - Use as an intermediate at industrial sites ERC 6a

No direct release to water, air or soil.

No direct release to waste of NaTG can be assumed (Release factor to waste from the process: 0%).

Worker contributing scenario 1: Mixing and dispersing in a closed batch process (PROC 3)

Conditions of use [Method]

Product (article) characteristics

- Concentration of substance in mixture: Substance as such [TRA Worker v3]

Amount used (or contained in articles), frequency and duration of use/exposure

- Duration of activity: < 4 hours [TRA Worker v3]

Technical and organisational conditions and measures

- General ventilation: Good general ventilation (3-5 air changes per hour) [TRA Worker v3]
- Containment: Closed batch process with occasional controlled exposure [TRA Worker v3]

- Local exhaust ventilation: yes [Effectiveness Inhal: 90%] [TRA Worker v3]
 - Local exhaust ventilation (for dermal): yes [Effectiveness Dermal: 90%] [TRA Worker v3]
 - Occupational Health and Safety Management System: Advanced [TRA Worker v3]
- Conditions and measures related to personal protection, hygiene and health evaluation**
- Dermal Protection: Yes (chemically resistant gloves conforming to EN374 with basic employee training) [Effectiveness Dermal: 90%] [TRA Worker v3]
 - Respiratory Protection: Yes (Respirator with APF of 10) [Effectiveness Inhal: 90%] [TRA Worker v3]
- Other conditions affecting workers exposure**
- Place of use: Indoor [TRA Worker v3]
 - Process temperature (for liquid): <= 40 °C [TRA Worker v3]
 - Skin surface potentially exposed: One hand face only (240 cm²) [TRA Worker v3]

Worker contributing scenario 2: Batch loading of equipment (manual, dedicated) (PROC 8b)

Conditions of use [Method]

Product (article) characteristics

- Concentration of substance in mixture: Substance as such [TRA Worker v3]

Amount used (or contained in articles), frequency and duration of use/exposure

- Duration of activity: < 4 hours [TRA Worker v3]

Technical and organisational conditions and measures

- General ventilation: Good general ventilation (3-5 air changes per hour) [TRA Worker v3]
- Containment: Semi-closed process with occasional controlled exposure [TRA Worker v3]
- Local exhaust ventilation: yes [Effectiveness Inhal: 95%] [TRA Worker v3]
- Local exhaust ventilation (for dermal): yes [Effectiveness Dermal: 95%] [TRA Worker v3]
- Occupational Health and Safety Management System: Advanced [TRA Worker v3]

Conditions and measures related to personal protection, hygiene and health evaluation

- Dermal Protection: Yes (chemically resistant gloves conforming to EN374 with basic employee training) [Effectiveness Dermal: 90%] [TRA Worker v3]
- Respiratory Protection: Yes (Respirator with APF of 10) [Effectiveness Inhal: 90%] [TRA Worker v3]

Other conditions affecting workers exposure

- Place of use: Indoor [TRA Worker v3]
- Process temperature (for liquid): <= 40 °C [TRA Worker v3]
- Skin surface potentially exposed: Two hands (960 cm²) [TRA Worker v3]

Worker contributing scenario 3: Laboratory agent (PROC 15)

Conditions of use [Method]

Product (article) characteristics

- Concentration of substance in mixture: Substance as such [TRA Worker v3]

Amount used (or contained in articles), frequency and duration of use/exposure

- Duration of activity: < 4 hours [TRA Worker v3]

Technical and organisational conditions and measures

- General ventilation: Good general ventilation (3-5 air changes per hour) [TRA Worker v3]
- Containment: No [TRA Worker v3]
- Local exhaust ventilation: yes [Effectiveness Inhal: 90%] [TRA Worker v3]
- Local exhaust ventilation (for dermal): yes [Effectiveness Dermal: 90%] [TRA Worker v3]
- Occupational Health and Safety Management System: Advanced [TRA Worker v3]

Conditions and measures related to personal protection, hygiene and health evaluation

- Dermal Protection: Yes (chemically resistant gloves conforming to EN374 with basic employee training) [Effectiveness Dermal: 90%] [TRA Worker v3]
- Respiratory Protection: Yes (Respirator with APF of 10) [Effectiveness Inhal: 90%] [TRA Worker v3]

Other conditions affecting workers exposure

- Place of use: Indoor [TRA Worker v3]
- Process temperature (for liquid): <= 40 °C [TRA Worker v3]

- Skin surface potentially exposed: One hand face only (240 cm²) [TRA Worker v3]

Leather processing – Use as a processing aid at industrial sites – ERC 6b

No direct release to water, air or soil.

No direct release to waste of NaTG can be assumed (Release factor to waste from the process: 0%).

Worker contributing scenario 1: Transfer of the substance (large amounts and non-dedicated facilities) (PROC 8a)

Conditions of use Covers also transfer of process waste to storage containers. [Method]

Product (article) characteristics

- Concentration of substance in mixture: Substance as such [TRA Worker v3]

Amount used (or contained in articles), frequency and duration of use/exposure

- Duration of activity: < 4 hours [TRA Worker v3]

Technical and organisational conditions and measures

- General ventilation: Good general ventilation (3-5 air changes per hour) [TRA Worker v3]
- Containment: No [TRA Worker v3]
- Local exhaust ventilation: yes [Effectiveness Inhal: 90%] [TRA Worker v3]
- Local exhaust ventilation (for dermal): yes [Effectiveness Dermal: 90%] [TRA Worker v3]
- Occupational Health and Safety Management System: Advanced [TRA Worker v3]

Conditions and measures related to personal protection, hygiene and health evaluation

- Dermal Protection: Yes (chemically resistant gloves conforming to EN374 with basic employee training) [Effectiveness Dermal: 90%] [TRA Worker v3]
- Respiratory Protection: Yes (Respirator with APF of 10) [Effectiveness Inhal: 90%] [TRA Worker v3]

Other conditions affecting workers exposure

- Place of use: Indoor [TRA Worker v3]
- Process temperature (for liquid): ≤ 40 °C [TRA Worker v3]
- Skin surface potentially exposed: Two hands (960 cm²) [TRA Worker v3]

Worker contributing scenario 2: Transfer of the substance (large amounts and dedicated facilities) (PROC 8b)

Conditions of use [Method]

Product (article) characteristics

- Concentration of substance in mixture: Substance as such [TRA Worker v3]

Amount used (or contained in articles), frequency and duration of use/exposure

- Duration of activity: < 4 hours [TRA Worker v3]

Technical and organisational conditions and measures

- General ventilation: Good general ventilation (3-5 air changes per hour) [TRA Worker v3]
- Containment: Semi-closed process with occasional controlled exposure [TRA Worker v3]
- Local exhaust ventilation: yes [Effectiveness Inhal: 95%] [TRA Worker v3]
- Local exhaust ventilation (for dermal): yes [Effectiveness Dermal: 95%] [TRA Worker v3]
- Occupational Health and Safety Management System: Advanced [TRA Worker v3]

Conditions and measures related to personal protection, hygiene and health evaluation

- Dermal Protection: Yes (chemically resistant gloves conforming to EN374 with basic employee training) [Effectiveness Dermal: 90%] [TRA Worker v3]
- Respiratory Protection: Yes (Respirator with APF of 10) [Effectiveness Inhal: 90%] [TRA Worker v3]

Other conditions affecting workers exposure

- Place of use: Indoor [TRA Worker v3]
- Process temperature (for liquid): ≤ 40 °C [TRA Worker v3]
- Skin surface potentially exposed: Two hands (960 cm²) [TRA Worker v3]

Worker contributing scenario 3: Filling small Containers in dedicated lines (PROC 9)

Conditions of use [Method]

Product (article) characteristics

- Concentration of substance in mixture: Substance as such [TRA Worker v3]

Amount used (or contained in articles), frequency and duration of use/exposure

- Duration of activity: < 4 hours [TRA Worker v3]

Technical and organisational conditions and measures

- General ventilation: Good general ventilation (3-5 air changes per hour) [TRA Worker v3]
- Containment: Semi-closed process with occasional controlled exposure [TRA Worker v3]
- Local exhaust ventilation: yes [Effectiveness Inhal: 90%] [TRA Worker v3]
- Local exhaust ventilation (for dermal): yes [Effectiveness Dermal: 90%] [TRA Worker v3]
- Occupational Health and Safety Management System: Advanced [TRA Worker v3]

Conditions and measures related to personal protection, hygiene and health evaluation

- Dermal Protection: Yes (chemically resistant gloves conforming to EN374 with basic employee training) [Effectiveness Dermal: 90%] [TRA Worker v3]
- Respiratory Protection: Yes (Respirator with APF of 10) [Effectiveness Inhal: 90%] [TRA Worker v3]

Other conditions affecting workers exposure

- Place of use: Indoor [TRA Worker v3]
- Process temperature (for liquid): <= 40 °C [TRA Worker v3]
- Skin surface potentially exposed: Two hands face (480 cm²) [TRA Worker v3]

Worker contributing scenario 4: Leather treatment by dipping and pouring (PROC 13)

Conditions of use [Method]

Product (article) characteristics

- Concentration of substance in mixture: Substance as such [TRA Worker v3]

Amount used (or contained in articles), frequency and duration of use/exposure

- Duration of activity: < 1 hour [TRA Worker v3]

Technical and organisational conditions and measures

- General ventilation: Enhanced general ventilation (5-10 air changes per hour) [TRA Worker v3]
- Containment: No [TRA Worker v3]
- Local exhaust ventilation: yes [Effectiveness Inhal: 90%] [TRA Worker v3]
- Local exhaust ventilation (for dermal): yes [Effectiveness Dermal: 90%] [TRA Worker v3]
- Occupational Health and Safety Management System: Advanced [TRA Worker v3]

Conditions and measures related to personal protection, hygiene and health evaluation

- Dermal Protection: Yes (chemically resistant gloves conforming to EN374 with specific activity training) [Effectiveness Dermal: 95%][TRA Worker v3]
- Respiratory Protection: Yes (Respirator with APF of 10) [Effectiveness Inhal: 90%] [TRA Worker v3]

Other conditions affecting workers exposure

- Place of use: Indoor [TRA Worker v3]
- Process temperature (for liquid): <= 40 °C [TRA Worker v3]
- Skin surface potentially exposed: Two hands face (480 cm²) [TRA Worker v3]

Uses by professional workers

- ERC 8a: Wide dispersive indoor use of processing aids in open systems
- ERC 8d: Wide dispersive outdoor use of processing aids in open systems
- PROC 11: Non industrial spraying
- PROC 15: Use as laboratory reagent
- PC 0: Other
- PC 14: Metal surface treatment products, including galvanic and electroplating products
- PC 21: Laboratory chemicals
- PC 35: Washing and cleaning products (including solvent based products)
- SU 9: Manufacture of chemicals

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SU 24: Scientific research and development

Uses by professional workers	Environmental release category:	Process category:	Product category formulated:	Sector of end use:
Production of anaerobic culture medium	ERC 8d, ERC 8a	PROC 15	PC 21, PC 0	SU 24
Rust remover / Cleaning agent	ERC 8d, ERC 8a	PROC 11	PC 14, PC 35	SU 9

Production of anaerobic culture medium – ERC 8d, ERC 8a

No direct release to water, air or soil.

No direct release to waste of NaTG can be assumed (Release factor to waste from the process: 0%).

Worker contributing scenario 1: Well controlled production of anaerobic culture media (PROC 15)

Conditions of use [Method]

Product (article) characteristics

- Concentration of substance in mixture: Substance as such [TRA Worker v3]

Amount used (or contained in articles), frequency and duration of use/exposure

- Duration of activity: < 1 hour [TRA Worker v3]

Technical and organisational conditions and measures

- General ventilation: Good general ventilation (3-5 air changes per hour) [TRA Worker v3]
- Containment: No [TRA Worker v3]
- Local exhaust ventilation: yes [Effectiveness Inhal: 80%] [TRA Worker v3]
- Local exhaust ventilation (for dermal): yes [Effectiveness Dermal: 80%] [TRA Worker v3]
- Occupational Health and Safety Management System: Basic [TRA Worker v3]

Conditions and measures related to personal protection, hygiene and health evaluation

- Dermal Protection: Yes (chemically resistant gloves conforming to EN374 with basic employee training) [Effectiveness Dermal: 90%] [TRA Worker v3]
- Respiratory Protection: Yes (Respirator with APF of 10) [Effectiveness Inhal: 90%] [TRA Worker v3]

Other conditions affecting workers exposure

- Place of use: Indoor [TRA Worker v3]
- Process temperature (for liquid): ≤ 40 °C [TRA Worker v3]
- Skin surface potentially exposed: One hand face only (240 cm²) [TRA Worker v3]

Rust remover / Cleaning agent – ERC 8d, ERC 8a

No direct release to water, air or soil.

No direct release of NaTG can be assumed (Release factor to waste from the process: 0%)

Worker contributing scenario 1: Cleaning of metal surfaces (PROC 11)

Conditions of use [Method]

Product (article) characteristics

- Concentration of substance in mixture: 5-25% [TRA Worker v3]

Amount used (or contained in articles), frequency and duration of use/exposure

- Duration of activity: < 1 hour [TRA Worker v3]

Technical and organisational conditions and measures

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- General ventilation: Good general ventilation (3-5 air changes per hour) [TRA Worker v3]
- Containment: No [TRA Worker v3]
- Local exhaust ventilation: yes [Effectiveness Inhal: 80%] [TRA Worker v3]
- Occupational Health and Safety Management System: Basic [TRA Worker v3]

Conditions and measures related to personal protection, hygiene and health evaluation

- Respiratory Protection: Yes (Respirator with APF of 10) [Effectiveness Inhal: 90%] [TRA Worker v3]

Other conditions affecting workers exposure

- Place of use: Indoor [TRA Worker v3]
- Process temperature (for liquid): ≤ 40 °C [TRA Worker v3]

Consumer Uses

ERC 8a: Wide dispersive indoor use of processing aids in open systems

PC 14: metal surface treatment products, including galvanic and electroplating products

PC 35: Washing and cleaning products (including solvent based products)

Consumer Uses	Environmental release category:	Product category formulated:
Rust remover / Cleaning agent	ERC 8a	PC 14, PC 35

Rust remover / Cleaning agent – ERC 8a

No direct release to water, air or soil.

No direct release of NaTG can be assumed (Release factor to waste from the process: 0%).

Consumer contributing scenario 1: Use of a rust remover / cleaning agent (PC 35)

Conditions of use

Not defined.

Conclusion on risk characterisation:

Chronic exposure via the dermal or inhalative route can be considered as negligible.

Risk characterisation related to combined exposure

Human health

Simultaneous exposure scenarios for humans are not relevant here.

Environment (combined for all emission sources)

2.1. All uses (regional scale)

2.1.1. Total releases

The total releases to the environment from all the exposure scenarios covered are presented in the table below.

This is the sum of the releases to the environments from all exposure scenarios addressed.

Table 1. Total releases to the environment per year from all life cycle stages:

Release route	Total releases per year
Water	0 kg/year
Air	1.7E4 kg/year

Soil	850 kg/year
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2.1.2. Regional exposure

Environment

The regional predicted environmental concentration (PEC regional) and the related risk characterisation ratios when a PNEC is available are presented in the table below.

The PEC regional have been estimated with EUSES.

Table 2. Predicted regional exposure concentrations (Regional PEC)

Protection target	Regional PEC	RCR
Freshwater	6.416E-5 mg/L	< 0.01
Sediment (freshwater)	1.976E-4 mg/kg dw	
Marine water	6.316E-6 mg/L	< 0.01
Sediment (marine water)	1.977E-5 mg/kg dw	
Air	1.018E-9 mg/m ³	
Agricultural soil	1.335E-4 mg/kg dw	

Man via environment

The exposure to man via the environment from regional exposure and the related risk characterisation ratios are presented in the table below. The exposure concentration via inhalation is equal to the PEC air.

Table 3. Regional exposure to man via the environment

Route	Regional exposure	RCR
Inhalation	1.018E-9 mg/m ³	
Oral	2.047E-5 mg/kg bw/day	

2.2. Local exposure due to all wide dispersive uses

Environment

The predicted local environmental concentrations (PEC local) based on the releases from all widespread uses are reported in the table below together with the risk characterisation ratio when a PNEC is available. Those exposure estimates have been obtained with EUSES.

Table 4. Predicted environmental concentration and risk characterisation ratio for the environment due to all wide dispersive uses

Protection target	PEC local due to all wide dispersive uses	RCR
Freshwater		
Marine water		
Sewage treatment plant		
Agricultural soil		

Man via environment

The exposure to man via the environment based on the releases from all widespread uses are reported in the table below together with the risk characterisation ratio when a DNEL is available. Those exposure estimates have been obtained with EUSES.

Table 5. Exposure and risk characterisation ratio for man via the environment due to all wide dispersive uses

Protection target	Exposure concentration due to all wide dispersive uses	RCR

2.3. Local exposure due to combined uses at a site

Simultaneous exposure of environment is not relevant here.

Anhang zum**Sicherheitsdatenblatt**

gemäß 1907/2006/EG, (VO (EU) Nr. 453/2010)

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Stoffsicherheitsbeurteilung**Natriumthioglykolat****Seite 14/14**

Uses advised against

No uses advised against are identified.

Exposure controls / personal protection

Exposure controls

General protective measures: Provide appropriate exhaust ventilation at machinery

PERSONAL PROTECTIVE EQUIPMENT

Respiratory protection: In case of insufficient ventilation, wear self contained breathing apparatus.

Hand protection: Splash contact, intermittent and prolonged : Neoprene or Butyl rubber gloves (tested EN 374) with thickness: 0,75 mm

Eye protection: Safety glasses

Skin and body protection: At the workplace: Combination with delayed penetration
Intervention at incident: overalls with hood, impervious clothing