



## SAFETY DATA SHEET LOTOXANE

According to Regulation (EC) No 1907/2006, Annex II, as amended.

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product name	LOTOXANE
Chemical name	Hydrocarbons, C11-C13, isoalkanes, <2% aromatics
Internal identification	C043
Synonyms; trade names	ISOPARAFFINIC HYDROCARBON
REACH registration number	01-2119456810-40-XXXX
CAS number	90622-58-5
EC number	920-901-0

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses	Cleaning agent.
Uses advised against	Use only for intended applications.

#### 1.3. Details of the supplier of the safety data sheet

Supplier	ARROW SOLUTIONS RAWDON ROAD, MOIRA, SWADLINCOTE, DERBYSHIRE, DE12 6DA, ENGLAND TEL: +44 (0)1283 221044 FAX: +44 (0)1283 225731 sales@arrowchem.com
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#### 1.4. Emergency telephone number

Emergency telephone	+44 (0) 777 8505 330 (24 hrs).
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### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification (EC 1272/2008)

Physical hazards	Not Classified
Health hazards	Asp. Tox. 1 - H304
Environmental hazards	Not Classified

#### 2.2. Label elements

EC number	920-901-0
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# LOTOXANE

## Hazard pictograms



<b>Signal word</b>	Danger
<b>Hazard statements</b>	H304 May be fatal if swallowed and enters airways.
<b>Precautionary statements</b>	P280 Wear protective gloves. P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P310 Immediately call a POISON CENTER/ doctor. P501 Dispose of contents/ container in accordance with national regulations.
<b>Supplemental label information</b>	EUH066 Repeated exposure may cause skin dryness or cracking.

## 2.3. Other hazards

This substance is not classified as PBT or vPvB according to current EU criteria.

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

<b>Product name</b>	LOTOXANE
<b>Chemical name</b>	Hydrocarbons, C11-C13, isoalkanes, <2% aromatics
<b>REACH registration number</b>	01-2119456810-40-XXXX
<b>CAS number</b>	90622-58-5
<b>EC number</b>	920-901-0

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

<b>General information</b>	Show this Safety Data Sheet to the medical personnel. If medical advice is needed, have product container or label at hand. Get medical attention immediately.
<b>Inhalation</b>	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing.
<b>Ingestion</b>	Rinse mouth thoroughly with water. Do not induce vomiting. Get medical attention.
<b>Skin contact</b>	Wash skin thoroughly with soap and water. Use suitable lotion to moisturise skin.
<b>Eye contact</b>	Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if any discomfort continues.

### 4.2. Most important symptoms and effects, both acute and delayed

<b>Inhalation</b>	Vapours may cause headache, fatigue, dizziness and nausea.
<b>Ingestion</b>	Aspiration hazard if swallowed. May be fatal if swallowed and enters airways.
<b>Skin contact</b>	Repeated exposure may cause skin dryness or cracking.
<b>Eye contact</b>	May cause discomfort.

### 4.3. Indication of any immediate medical attention and special treatment needed

<b>Notes for the doctor</b>	Treat symptomatically.
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## SECTION 5: Firefighting measures

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## 5.1. Extinguishing media

**Suitable extinguishing media** Use alcohol-resistant foam, carbon dioxide or dry powder to extinguish.

## 5.2. Special hazards arising from the substance or mixture

**Specific hazards** Combustible liquid.

**Hazardous combustion products** Thermal decomposition or combustion products may include the following substances: Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>).

## 5.3. Advice for firefighters

**Protective actions during firefighting** Cool containers exposed to flames with water until well after the fire is out.

## **SECTION 6: Accidental release measures**

### 6.1. Personal precautions, protective equipment and emergency procedures

**Personal precautions** Ensure procedures and training for emergency decontamination and disposal are in place. No action shall be taken without appropriate training or involving any personal risk. Keep unnecessary and unprotected personnel away from the spillage. Evacuate area. No smoking, sparks, flames or other sources of ignition near spillage. Take precautionary measures against static discharges. Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Avoid contact with skin, eyes and clothing. Provide adequate ventilation. Do not touch or walk into spilled material. Avoid contact with contaminated tools and objects. Do not handle broken packages without protective equipment. Take care as floors and other surfaces may become slippery. Wash thoroughly after dealing with a spillage.

### 6.2. Environmental precautions

**Environmental precautions** Do not discharge into drains or watercourses or onto the ground.

### 6.3. Methods and material for containment and cleaning up

**Methods for cleaning up** Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Eliminate all ignition sources if safe to do so. Provide adequate ventilation. Absorb spillage with non-combustible, absorbent material. Collect and place in suitable waste disposal containers and seal securely. Containers with collected spillage must be properly labelled with correct contents and hazard symbol. Clean contaminated objects and areas thoroughly, observing environmental regulations. Wash thoroughly after dealing with a spillage.

### 6.4. Reference to other sections

**Reference to other sections** Wear protective clothing as described in Section 8 of this safety data sheet.

## **SECTION 7: Handling and storage**

### 7.1. Precautions for safe handling

**Usage precautions** Observe any occupational exposure limits for the product or ingredients. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Eliminate all sources of ignition. Provide adequate ventilation. Wear protective gloves. Avoid contact with skin, eyes and clothing. Avoid breathing vapours. Avoid release to the environment. Do not empty into drains. Do not reuse empty containers. Do not eat, drink or smoke when using this product. Avoid contact with contaminated tools and objects. Do not handle broken packages without protective equipment. Wash skin thoroughly after handling.

### 7.2. Conditions for safe storage, including any incompatibilities

**Storage precautions** Store at temperatures between 4°C and 40°C. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

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**Storage class** Miscellaneous hazardous material storage.

## 7.3. Specific end use(s)

**Specific end use(s)** The identified uses for this product are detailed in Section 1.2.

## SECTION 8: Exposure controls/Personal protection

### 8.1. Control parameters

#### Occupational exposure limits

Long-term exposure limit (8-hour TWA): WEL 171 ppm 1200 mg/m<sup>3</sup> vapour

WEL = Workplace Exposure Limit.

**Ingredient comments** This substance is a UVCB and conventional methods of defining DNEL and PNEC are not appropriate.

### 8.2. Exposure controls

#### Protective equipment



#### Appropriate engineering controls

Observe any occupational exposure limits for the product or ingredients.

#### Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Personal protective equipment for eye and face protection should comply with European Standard EN166. The following protection should be worn: Tight-fitting safety glasses.

#### Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. To protect hands from chemicals, gloves should comply with European Standard EN374. The selected gloves should have a breakthrough time of at least 4 hours. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected. The breakthrough time for any glove material may be different for different glove manufacturers. It should be noted that liquid may penetrate the gloves. Frequent changes are recommended. Protective gloves should have a minimum thickness of 0.15 mm. Glove thickness is not necessarily a good measure of glove resistance as the permeation rate will depend on the exact glove composition. For work of short duration or where a high degree of manual dexterity is needed, use protective gloves made of: Nitrile rubber. Thickness: > 0.2 mm Chloroprene rubber. Thickness: > 0.7 mm Polyvinyl chloride (PVC). The choice of protective gloves depends upon the chemicals being handled, and the conditions of work and use. Repeated exposure to chemicals will degrade the ability of the glove to provide resistance to chemicals. Specific work environments and material handling practices may vary, therefore safety procedures should be developed for each intended application.

#### Hygiene measures

Wash hands thoroughly after handling. Wash contaminated clothing before reuse.

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**Respiratory protection** No specific requirements are anticipated under normal conditions of use. Respiratory protection complying with an approved standard should be worn if a risk assessment indicates inhalation of contaminants is possible. Respirator selection must be based on exposure levels, the hazards of the product and the safe working limits of the selected respirator. Ensure all respiratory protective equipment is suitable for its intended use and is 'CE'-marked. Respiratory protection must be used if the airborne contamination exceeds the recommended occupational exposure limit. If ventilation is inadequate, suitable respiratory protection must be worn. Check that the respirator fits tightly and the filter is changed regularly. Half mask and quarter mask respirators with replaceable filter cartridges should comply with European Standard EN140. Disposable filtering half mask respirators should comply with European Standard EN149 or EN405. Gas and combination filter cartridges should comply with European Standard EN14387. Wear a respirator fitted with the following cartridge: Combination filter, type A2/P2. Organic vapour + dust and mist filter.

**Environmental exposure controls** Store in a demarcated bunded area to prevent release to drains and/or watercourses. Keep container tightly sealed when not in use. Residues and empty containers should be taken care of as hazardous waste according to local and national provisions.

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

<b>Appearance</b>	Clear liquid.
<b>Colour</b>	Colourless.
<b>Odour</b>	Almost odourless.
<b>pH</b>	Not applicable.
<b>Melting point</b>	Not known.
<b>Initial boiling point and range</b>	>185°C @ 760 mm Hg
<b>Flash point</b>	≥ 62°C Pensky-Martens closed cup.
<b>Evaporation rate</b>	~ 0.04 (butyl acetate = 1)
<b>Flammability (solid, gas)</b>	Not applicable.
<b>Upper/lower flammability or explosive limits</b>	Upper flammable/explosive limit: 7.0 Lower flammable/explosive limit: 0.60
<b>Other flammability</b>	Not applicable.
<b>Vapour pressure</b>	~ 0.04 kPa @ 20°C
<b>Relative density</b>	~ 0.77 @ 20°C
<b>Solubility(ies)</b>	Insoluble in water.
<b>Partition coefficient</b>	Not determined.
<b>Auto-ignition temperature</b>	Not determined.
<b>Decomposition Temperature</b>	Not applicable.
<b>Viscosity</b>	~ 1.75 m <sup>2</sup> /s @ 20°C
<b>Explosive properties</b>	There are no chemical groups present in the product that are associated with explosive properties.
<b>Oxidising properties</b>	There are no chemical groups present in the product that are associated with oxidising properties.

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**Comments** Information declared as "Not available" or "Not applicable" is not considered to be relevant to the implementation of the proper control measures.

## 9.2. Other information

**Volatile organic compound** This product contains a maximum VOC content of 786 g/litre. EU: (cat B/e): 840 g/l 2007.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

**Reactivity** There are no known reactivity hazards associated with this product.

### 10.2. Chemical stability

**Stability** Stable at normal ambient temperatures and when used as recommended.

### 10.3. Possibility of hazardous reactions

**Possibility of hazardous reactions** Not determined.

### 10.4. Conditions to avoid

**Conditions to avoid** Avoid heat, flames and other sources of ignition.

### 10.5. Incompatible materials

**Materials to avoid** No specific material or group of materials is likely to react with the product to produce a hazardous situation.

### 10.6. Hazardous decomposition products

**Hazardous decomposition products** Thermal decomposition or combustion products may include the following substances: Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>).

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Acute toxicity - oral

**Notes (oral LD<sub>50</sub>)** LD<sub>50</sub> >5000 mg/kg, Oral, Rat Based on available data the classification criteria are not met.

#### Acute toxicity - dermal

**Notes (dermal LD<sub>50</sub>)** LD<sub>50</sub> >5000 mg/kg, Dermal, Rabbit Based on available data the classification criteria are not met.

#### Acute toxicity - inhalation

**Acute toxicity inhalation (LC<sub>50</sub> vapours mg/l)** 5,001.0

**Species** Rat

**Notes (inhalation LC<sub>50</sub>)** LD<sub>50</sub> >5000 mg/m<sup>3</sup>, Inhalation, Rat Based on available data the classification criteria are not met.

**ATE inhalation (vapours mg/l)** 5,001.0

#### Skin corrosion/irritation

**Skin corrosion/irritation** Based on available data the classification criteria are not met.

#### Serious eye damage/irritation

**Serious eye damage/irritation** Based on available data the classification criteria are not met.

#### Respiratory sensitisation

**Respiratory sensitisation** Based on available data the classification criteria are not met.

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### Skin sensitisation

**Skin sensitisation** Based on available data the classification criteria are not met.

### Germ cell mutagenicity

**Genotoxicity - in vitro** Based on available data the classification criteria are not met.

### Carcinogenicity

**Carcinogenicity** There is no evidence that the product can cause cancer.

### Reproductive toxicity

**Reproductive toxicity - fertility** This substance has no evidence of toxicity to reproduction.

### Specific target organ toxicity - single exposure

**STOT - single exposure** Based on available data the classification criteria are not met.

### Specific target organ toxicity - repeated exposure

**STOT - repeated exposure** Based on available data the classification criteria are not met.

### Aspiration hazard

**Aspiration hazard** May be fatal if swallowed and enters airways. Kinematic viscosity  $\leq 20.5 \text{ mm}^2/\text{s}$ .

### Inhalation

Vapours may cause headache, fatigue, dizziness and nausea.

### Ingestion

Aspiration hazard if swallowed. May be fatal if swallowed and enters airways.

### Skin contact

Repeated exposure may cause skin dryness or cracking.

### Eye contact

May cause discomfort.

### Acute and chronic health hazards

Defatting, drying and cracking of skin. Pneumonia may be the result if vomited material containing solvents reaches the lungs.

### Route of exposure

Inhalation Dermal

### Target organs

Lungs Skin Nervous system

### Medical symptoms

Dry skin. Dryness and/or cracking.

## SECTION 12: Ecological information

### Ecotoxicity

Not regarded as dangerous for the environment.

### 12.1. Toxicity

#### Acute aquatic toxicity

**Acute toxicity - fish**  $LL_{50}$ , 96 hours:  $>1000 \text{ mg/l}$ , *Oncorhynchus mykiss* (Rainbow trout)

#### Chronic aquatic toxicity

**Chronic toxicity - fish early life stage** Not available.

### 12.2. Persistence and degradability

**Persistence and degradability** The product is expected to be biodegradable.

### 12.3. Bioaccumulative potential

**Bioaccumulative potential** Not determined.

### Partition coefficient

Not determined.

### 12.4. Mobility in soil

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**Mobility** The product contains volatile organic compounds (VOCs) which will evaporate easily from all surfaces.

## 12.5. Results of PBT and vPvB assessment

**Results of PBT and vPvB assessment** This substance is not classified as PBT or vPvB according to current EU criteria.

## 12.6. Other adverse effects

**Other adverse effects** Not determined.

## **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

**Disposal methods** Disposal of this product, process solutions, residues and by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any local authority requirements.

## **SECTION 14: Transport information**

**General** The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

### **Special Provisions note**

#### 14.1. UN number

Not applicable.

#### 14.2. UN proper shipping name

Not applicable.

#### 14.3. Transport hazard class(es)

No transport warning sign required.

#### 14.4. Packing group

Not applicable.

#### 14.5. Environmental hazards

**Environmentally hazardous substance/marine pollutant**  
No.

#### 14.6. Special precautions for user

Not applicable.

#### 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not applicable.

## **SECTION 15: Regulatory information**

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

**National regulations** Control of Substances Hazardous to Health Regulations 2002 (as amended).



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<b>EU legislation</b>	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended). Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).
<b>Guidance</b>	Workplace Exposure Limits EH40.

## **15.2. Chemical safety assessment**

A chemical safety assessment has been carried out.

### **Inventories**

#### **EU - EINECS/ELINCS**

Present.

#### **Canada - DSL/NDSL**

DSL

#### **US - TSCA**

All the ingredients are listed or exempt.

#### **Australia - AICS**

All the ingredients are listed or exempt.

#### **Japan - ENCS**

All the ingredients are listed or exempt.

#### **Korea - KECI**

All the ingredients are listed or exempt.

#### **China - IECSC**

All the ingredients are listed or exempt.

#### **Philippines – PICCS**

All the ingredients are listed or exempt.

#### **Taiwan - TCSI**

All the ingredients are listed or exempt.

## **SECTION 16: Other information**

<b>Abbreviations and acronyms used in the safety data sheet</b>	ATE: Acute Toxicity Estimate. ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road. CAS: Chemical Abstracts Service. DNEL: Derived No Effect Level. IATA: International Air Transport Association. IMDG: International Maritime Dangerous Goods. LD <sub>50</sub> : Lethal Dose to 50% of a test population (Median Lethal Dose). PBT: Persistent, Bioaccumulative and Toxic substance. PNEC: Predicted No Effect Concentration. REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006. UN: United Nations. vPvB: Very Persistent and Very Bioaccumulative.
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## LOTOXANE

<b>Classification abbreviations and acronyms</b>	Asp. Tox. = Aspiration hazard
<b>Classification procedures according to Regulation (EC) 1272/2008</b>	Asp. Tox. 1 - H304: On basis of test data.
<b>Revision comments</b>	NOTE: Lines within the margin indicate significant changes from the previous revision.
<b>Revision date</b>	10/06/2021
<b>Revision</b>	3.4
<b>Supersedes date</b>	18/07/2019
<b>SDS number</b>	21513
<b>Hazard statements in full</b>	H304 May be fatal if swallowed and enters airways.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.



## Exposure scenario USE IN CLEANING AGENTS - INDUSTRIAL

### Identification

<b>Product name</b>	LOTOXANE
<b>REACH registration number</b>	01-2119456810-40-XXXX
<b>EC number</b>	920-901-0
<b>Revision date</b>	12/06/2018
<b>Version number</b>	1.1
<b>Es reference</b>	LOTOXANE
<b>Supplier</b>	ARROW SOLUTIONS RAWDON ROAD, MOIRA, SWADLINCOTE, DERBYSHIRE, DE12 6DA, ENGLAND TEL: +44 (0)1283 221044 FAX: +44 (0)1283 225731 sales@arrowchem.com

### 1. Title of exposure scenario

<b>Main title</b>	USE IN CLEANING AGENTS - INDUSTRIAL
<b>Process scope</b>	Covers the use as a component of cleaning products, including transfer from storage, pouring/unloading from drums or containers and exposures during mixing/diluting in the preparatory phase and cleaning activities (including spraying, brushing, dipping, wiping, automated and by hand), related equipment cleaning and maintenance.
<b>Technical functions</b>	Cleaning agent
<b>Main sector</b>	SU3 Industrial uses SU22 Professional uses
<b>Sector of use</b>	SU3 Industrial uses SU22 Professional uses
<b>Environment</b>	Cleaning
<b>Life cycle stage</b>	Use at industrial site Widespread use by professional workers

## USE IN CLEANING AGENTS - INDUSTRIAL

<b>Environmental release category</b>	ERC4 Use of non-reactive processing aid at industrial site (no inclusion into or onto article) ERC8a Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) ERC8d Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor)
<b><u>Worker</u></b>	Cleaning
<b>Life cycle stage</b>	Use at industrial site Widespread use by professional workers
<b>Process category</b>	PROC1 Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions PROC10 Roller application or brushing PROC13 Treatment of articles by dipping and pouring. PROC19 Manual activities involving hand contact PROC2 Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions PROC3 Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition PROC4 Chemical production where opportunity for exposure arises PROC7 Industrial spraying PROC8a Transfer of substance or mixture (charging and discharging) at non-dedicated facilities PROC8b Transfer of substance or mixture (charging and discharging) at dedicated facilities

### 2. Conditions of use affecting exposure (Industrial - Environment 1)

#### Control of environmental exposure

**Environmental release category** ERC4 Use of non-reactive processing aid at industrial site (no inclusion into or onto article)

#### Product characteristics

**Physical state** Liquid, vapour pressure < 0.5 kPa at STP

### 2. Conditions of use affecting exposure (Industrial - Environment 2)

#### Control of environmental exposure

**Environmental release category** ERC8a Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)  
ERC8d Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor)

#### Product characteristics

**Physical state** Liquid, vapour pressure < 0.5 kPa at STP

### 2. Conditions of use affecting exposure (Workers - Health 1)

#### Control of workers exposure

## USE IN CLEANING AGENTS - INDUSTRIAL

<b>Process category</b>	<p>PROC1 Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions</p> <p>PROC10 Roller application or brushing</p> <p>PROC13 Treatment of articles by dipping and pouring.</p> <p>PROC2 Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions</p> <p>PROC3 Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition</p> <p>PROC4 Chemical production where opportunity for exposure arises</p> <p>PROC7 Industrial spraying</p> <p>PROC8a Transfer of substance or mixture (charging and discharging) at non-dedicated facilities</p> <p>PROC8b Transfer of substance or mixture (charging and discharging) at dedicated facilities</p>
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### Product characteristics

**Physical state** Liquid, vapour pressure < 0.5 kPa at STP

**Kinematic viscosity** <20.5 m<sup>2</sup>/s @ 40°C

### Frequency and duration of use

Covers daily exposures up to 8 hours (unless stated differently).

Covers percentage substance in the product up to 100% (unless stated differently).

### Risk management measures

Assumes a good basic standard of occupational hygiene is implemented.

## 2. Conditions of use affecting exposure (Workers - Health 2)

### Control of workers exposure

<b>Process category</b>	<p>PROC1 Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions</p> <p>PROC10 Roller application or brushing</p> <p>PROC11 Non industrial spraying</p> <p>PROC13 Treatment of articles by dipping and pouring.</p> <p>PROC19 Manual activities involving hand contact</p> <p>PROC2 Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions</p> <p>PROC3 Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition</p> <p>PROC4 Chemical production where opportunity for exposure arises</p> <p>PROC8a Transfer of substance or mixture (charging and discharging) at non-dedicated facilities</p> <p>PROC8b Transfer of substance or mixture (charging and discharging) at dedicated facilities</p>
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### Product characteristics

**Physical state** Liquid, vapour pressure < 0.5 kPa at STP

**Kinematic viscosity** <20.5 m<sup>2</sup>/s @ 40°C

### Frequency and duration of use

Covers daily exposures up to 8 hours (unless stated differently).

Covers percentage substance in the product up to 100% (unless stated differently).

### Risk management measures

Assumes a good basic standard of occupational hygiene is implemented.

## **USE IN CLEANING AGENTS - INDUSTRIAL**