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# **SECTION 8: Exposure controls/personal protection**

PNEC	, c	9,6 mg/l	-
		l	
PNEC	Fresh water sediment	13,7 mg/kg dwt	-
PNEC	Soil	2,68 mg/kg dwt	-
PNEC	Secondary Poisoning	20 mg/kg	-
PNEC	Fresh water	10 mg/l	-
PNEC	Marine	1 mg/l	-
PNEC	Sewage Treatment	100 mg/l	-
	Plant		
PNEC	Fresh water sediment	52,3 mg/kg dwt	-
PNEC	Marine water sediment	5,2 mg/kg dwt	-
PNEC	Soil	5,49 mg/kg dwt	-
-	Fresh water	0,6 µg/l	-
-	Marine water	2,36 µg/l	-
-	Sewage Treatment	0,37 mg/l	-
	Plant		
-	Sediment	9,5 mg/kg dwt	-
-	Soil	10,9 mg/kg dwt	-
	PNEC PNEC PNEC PNEC PNEC PNEC PNEC	Plant PNEC PNEC PNEC Soil PNEC PNEC PNEC PNEC PNEC PNEC PNEC PNEC	Plant PNEC Fresh water sediment PNEC Soil 2,68 mg/kg dwt PNEC Secondary Poisoning 20 mg/kg PNEC Fresh water PNEC Marine 100 mg/l PNEC Sewage Treatment Plant PNEC Fresh water sediment Plant PNEC Fresh water sediment PNEC Soil 5,2 mg/kg dwt Fresh water 0,6 µg/l Marine water 2,36 µg/l Sewage Treatment Plant Sediment 9,5 mg/kg dwt

#### 8.2 Exposure controls

# Appropriate engineering controls

: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

#### **Individual protection measures**

#### **Hygiene measures**

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

#### **Eye/face protection**

Safety eyewear complying to EN 166 should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

# Skin protection Hand protection

: There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals.

The breakthrough time must be greater than the end use time of the product. The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed.

Gloves should be replaced regularly and if there is any sign of damage to the glove material.

Always ensure that gloves are free from defects and that they are stored and used correctly.

The performance or effectiveness of the glove may be reduced by physical/chemical damage and poor maintenance.

Barrier creams may help to protect the exposed areas of the skin but should not be applied once exposure has occurred.

₩ear suitable gloves tested to EN374.

May be used, gloves(breakthrough time) 4 - 8 hours: neoprene Not recommended, gloves(breakthrough time) < 1 hour: butyl rubber, PVC Recommended, gloves(breakthrough time) > 8 hours: 4H, Teflon, polyvinyl alcohol (PVA), nitrile rubber

For right choice of glove materials, with focus on chemical resistance and time of penetration, seek advice by the supplier of chemical resistant gloves.

The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.

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# **SECTION 8: Exposure controls/personal protection**

**Body protection** 

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.

Other skin protection

Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection

If workers are exposed to concentrations above the exposure limit, they must use a respirator according to EN 140. Use respiratory mask with charcoal and dust filter when spraying this product, according to EN 14387(as filter combination A2-P2). In confined spaces, use compressed-air or fresh-air respiratory equipment. When use of roller or brush, consider use of charcoalfilter.

**Environmental exposure** controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

: Lowest known value: 120.17°C (248.3°F) (1-methoxy-2-propanol). Weighted

# **SECTION 9: Physical and chemical properties**

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

**Appearance** 

**Physical state** : Liquid.

Colour : Various colours. **Odour** Characteristic. **Odour threshold** Not available. : Not applicable. Melting point/freezing point : Not applicable.

Initial boiling point and

boiling range

average: 134.79°C (274.6°F) : Closed cup: 25°C

Flash point

Highest known value: 0.84 (ethylbenzene) Weighted average: 0.79compared **Evaporation rate** 

with butyl acetate

Flammability (solid, gas) Not applicable. **Burning time** Not applicable. **Burning rate** Not applicable. Upper/lower flammability or

explosive limits

: 0.8 - 13.74%

: Fighest known value: 1.2 kPa (9.3 mm Hg) (at 20°C) (ethylbenzene). Weighted Vapour pressure

average: 0.99 kPa (7.43 mm Hg) (at 20°C)

: Highest known value: 3.7 (Air = 1) (xylene). Weighted average: 3.65 (Air = 1) Vapour density

: 1.02 to 1.149 g/cm<sup>3</sup> Relative density

Solubility(ies) : Insoluble in the following materials: cold water and hot water.

Partition coefficient: n-octanol/ : Not available.

**Auto-ignition temperature** : Lowest known value: 270°C (518°F) (1-methoxy-2-propanol).

**Decomposition temperature** : Not available.

: Kinematic (40°C): >0,205 cm<sup>2</sup>/s (>20,5 mm<sup>2</sup>/s) **Viscosity** 

**Explosive properties** : Not available. **Oxidising properties** : Not available.

#### 9.2 Other information

No additional information.

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# **SECTION 10: Stability and reactivity**

10.1 Reactivity

10.2 Chemical stability

10.3 Possibility of

hazardous reactions

10.4 Conditions to avoid

: No specific test data related to reactivity available for this product or its ingredients.

: The product is stable.

Under normal conditions of storage and use, hazardous reactions will not occur.

: Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld,

braze, solder, drill, grind or expose containers to heat or sources of ignition. : Keep away from the following materials to prevent strong exothermic reactions:

oxidising agents, strong alkalis, strong acids.

10.6 Hazardous decomposition products

10.5 Incompatible materials

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

# SECTION 11: Toxicological information

#### 11.1 Information on toxicological effects

There are no data available on the mixture itself. The mixture has been assessed following the conventional method of the CLP Regulation (EC) No 1272/2008 and is classified for toxicological properties accordingly. See Sections 2 and 3 for details.

Exposure to component solvent vapour concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness.

Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin.

If splashed in the eyes, the liquid may cause irritation and reversible damage.

Ingestion may cause nausea, diarrhea and vomiting.

This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

Contains 2-butanone oxime, cobalt bis(2-ethylhexanoate), fatty acids, C18-unsatd., trimers, compds. with oleylamine. May produce an allergic reaction.

Product/ingredient name	Result	Species	Dose	Exposure
<b>x</b> ylene	LC50 Inhalation Vapour	Rat	20 mg/l	4 hours
•	LD50 Oral	Rat	4300 mg/kg	-
	TDLo Dermal	Rabbit	4300 mg/kg	-
ethylbenzene	LC50 Inhalation Gas.	Rabbit	4000 ppm	4 hours
•	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	3500 mg/kg	-
1-methoxy-2-propanol	LD50 Dermal	Rabbit	13 g/kg	-
	LD50 Oral	Rat	6600 mg/kg	-

#### **Acute toxicity estimates**

Route	ATE value
Permal Inhalation (vapours)	4506 mg/kg 33,8 mg/l

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Mild irritant	Rabbit	-	500 milligrams	-
2-butanone oxime	Eyes - Severe irritant	Rabbit	ı	100 microliters	-

Specific target organ toxicity (single exposure)

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# **SECTION 11: Toxicological information**

Product/ingredient name	Category	Route of exposure	Target organs
hydrocarbons, C9, aromatics, (<0.1% Benzene)	Category 3		Respiratory tract irritation and Narcotic effects
1-methoxy-2-propanol	Category 3	Not applicable.	Narcotic effects

#### Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
ethylbenzene fatty acids, C18-unsatd., trimers, compds. with oleylamine	Category 2 Category 2		hearing organs Not determined

#### **Aspiration hazard**

Product/ingredient name	Result
hydrocarbons, C9, aromatics, (<0.1% Benzene) ethylbenzene	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1

#### Potential acute health effects

**Eye contact** : Causes serious eye irritation.

**Inhalation** : No known significant effects or critical hazards.

**Skin contact** : Causes skin irritation.

Ingestion : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : Adverse symptoms may include the following:

pain or irritation

watering redness

Inhalation : No specific data.

**Skin contact**: Adverse symptoms may include the following:

irritation redness

Ingestion : No specific data.

#### Potential chronic health effects

General : No known significant effects or critical hazards.
 Carcinogenicity : No known significant effects or critical hazards.
 Mutagenicity : No known significant effects or critical hazards.
 Teratogenicity : No known significant effects or critical hazards.
 Developmental effects : No known significant effects or critical hazards.
 Fertility effects : No known significant effects or critical hazards.

# **SECTION 12: Ecological information**

#### 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
ydrocarbons, C9, aromatics, (<0.1% Benzene)	Acute EC50 <10 mg/l	Daphnia	48 hours
· · ·	Acute IC50 <10 mg/l	Algae	72 hours
	Acute LC50 <10 mg/l	Fish	96 hours
ethylbenzene	Acute EC50 7,2 mg/l	Algae	48 hours
•	Acute EC50 2,93 mg/l	Daphnia	48 hours
	Acute LC50 4,2 mg/l	Fish	96 hours
cobalt bis(2-ethylhexanoate)	Acute LC50 1,5 mg/l	Fish	96 hours

Conclusion/Summary : This materi

: This material is harmful to aquatic life with long lasting effects.

#### 12.2 Persistence and degradability

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# SECTION 12: Ecological information

Conclusion/Summary : Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
<b>x</b> ylene	-	-	Readily
hydrocarbons, C9,	-	-	Not readily
aromatics, (<0.1% Benzene)			
ethylbenzene	-	-	Readily

#### 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
<b>x</b> ylene	3,12	8.1 to 25.9	low
hydrocarbons, C9,	-	10 to 2500	high
aromatics, (<0.1% Benzene)			
ethylbenzene	3,6	-	low
1-methoxy-2-propanol	<1	-	low
2-butanone oxime	0,63	2.5 to 5.8	low
cobalt bis(2-ethylhexanoate)	-	15600	high

#### 12.4 Mobility in soil

Soil/water partition

: Not available.

coefficient (Koc)

**Mobility** 

: Not available.

#### 12.5 Results of PBT and vPvB assessment

PBT : Not applicable.

vPvB : Not applicable.

**12.6 Other adverse effects** : No known significant effects or critical hazards.

# **SECTION 13: Disposal considerations**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 13.1 Waste treatment methods

Do not allow to enter drains or watercourses. Material and/or container must be disposed of as hazardous waste.

European waste catalogue (EWC)

: 08 01 11\* Waste paint and varnish containing organic solvents or other dangerous

substances

# **SECTION 14: Transport information**

**Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in accordance with ADR/RID, IMDG/IMO and ICAO/IATA and national regulation.

#### **International transport regulations**

**14.1 UN number** : 1263 **14.2 UN proper shipping** : Paint.

name

**14.3 Transport hazard** : 3

class(es)



14.4 Packing group : III

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# SECTION 14: Transport information

14.5 Environmental

hazards

: No

14.6 Special precautions

for user

: **Transport within user's premises**: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in

the event of an accident or spillage.

**Additional information** 

ADR / RID

: Tunnel restriction code: (D/E) Hazard identification number: 30 Special provisions: 640E

ADR/RID: Viscous substance. Not restricted, ref. chapter 2.2.3.1.5 (applicable to

receptacles < 450 litre capacity).

IMDG

: Emergency schedules (EmS)

F-E, <u>S-E</u>

IMDG: Viscous substance. Transport in accordance with paragraph 2.3.2.5

(applicable to receptacles < 30 litre capacity).

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

: Not available.

# SECTION 15: Regulatory information

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

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions : Not applicable.

on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Other EU regulations

**Europe inventory**: Not determined.

Black List Chemicals : Not listed

Industrial emissions (integrated pollution prevention and control) -

**Priority List Chemicals** 

: Not listed

: Not determined

. Air

Industrial emissions (integrated pollution prevention and control) - : Not listed

Water

Product/ingredient name	Carcinogenic effects	Mutagenic effects	Developmental effects	Fertility effects
2-butanone oxime cobalt bis (2-ethylhexanoate)	Carc. 2, H351 -	-	-	Repr. 2, H361f (Fertility)

Product/ingredient name	List name	Name on list	Classification	Notes
bobalt bis(2-ethylhexanoate)	UK Occupational Exposure Limits EH40	cobalt compounds	Carc.	-
	- WEL			

Chemical Weapons
Convention List Schedule I

: Not listed

Chemicals

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# SECTION 15: Regulatory information

Chemical Weapons

Convention List Schedule II

**Chemicals** 

Chemical Weapons

**Convention List Schedule III** 

**Chemicals** 

: Not listed

Not listed

15.2 Chemical safety

assessment

: Not applicable.

# **SECTION 16: Other information**

Indicates information that has changed from previously issued version.

Abbreviations and acronyms

: ATE = Acute Toxicity Estimate

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.

1272/2008]

DNEL = Derived No Effect Level

EUH statement = CLP-specific Hazard statement PNEC = Predicted No Effect Concentration RRN = REACH Registration Number

### Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Flam. Liq. 3, H226	On basis of test data
Skin Irrit. 2, H315	Calculation method
Eye Irrit. 2, H319	Calculation method
Aquatic Chronic 3, H412	Calculation method

Full text of abbreviated H statements

: H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

H351 Suspected of causing cancer. H361f Suspected of damaging fertility.

(Fertility)

H373 May cause damage to organs through prolonged or repeated exposure.

(hearing (hearing organs)

organs)

H373 May cause damage to organs through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.H412 Harmful to aquatic life with long lasting effects.

Full text of classifications [CLP/GHS]

Acute Tox. 4, H302 ACUTE TOXICITY (oral) - Category 4
 Acute Tox. 4, H312 ACUTE TOXICITY (dermal) - Category 4
 Acute Tox. 4, H332 ACUTE TOXICITY (inhalation) - Category 4
 Acute Tox. 4, H332 ACUTE TOXICITY (inhalation) - Category 4
 Acute Tox. 4, H332 ACUTE TOXICITY (inhalation) - Category 4
 Acute Tox. 4, H312 ACUTE TOXICITY (dermal) - Category 4
 Acute Tox. 4, H332 ACUTE TOXICITY (inhalation) - Category 4
 Acute Tox. 4, H332 ACUTE TOXICITY (dermal) - Category 4
 Acute Tox. 4, H332 ACUTE TOXICITY (dermal) - Category 4
 Acute Tox. 4, H332 ACUTE TOXICITY (inhalation) - Category 4
 Acute Tox. 4, H332 ACUTE TOXICITY (inhalation) - Category 4
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 Acute Tox. 4, H332 ACUTE TOXICITY (inhalation) - Category 1
 Acute Tox. 4, H332 ACUTE TOXICITY (inhalation) - Category 1
 Acute Tox.

Asp. Tox. 1, H304 ASPIRATION HAZARD - Category 1 Carc. 2, H351 CARCINOGENICITY - Category 2

Eye Dam. 1, H318 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1
Eye Irrit. 2, H319 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2

Flam. Liq. 2, H225 FLAMMABLE LIQUIDS - Category 2 Flam. Liq. 3, H226 FLAMMABLE LIQUIDS - Category 3

Repr. 2, H361f (Fertility) TOXIC TO REPRODUCTION (Fertility) - Category 2 Skin Irrit. 2, H315 SKIN CORROSION/IRRITATION - Category 2

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#### **SECTION 16: Other information**

Skin Sens. 1, H317 SKIN SENSITIZATION - Category 1

STOT RE 2, H373 SPECIFIC TARGET ORGAN TOXICITY (REPEATED

(hearing organs) EXPOSURE) (hearing organs) - Category 2

STOT RE 2, H373 SPECIFIC TARGET ORGAN TOXICITY (REPEATED

EXPOSURE) - Category 2

STOT SE 3, H335 SPECIFIC TARGET ORGAN TOXICITY (SINGLE

EXPOSURE) (Respiratory tract irritation) - Category 3
SPECIFIC TARGET ORGAN TOXICITY (SINGLE

EXPOSURE) (Narcotic effects) - Category 3

Date of printing : 24.01.2017

Date of issue/ Date of : 24.01.2017

revision

Date of previous issue : 18.12.2016

Version : 6

#### **Notice to reader**

The information in this document is given to the best of Jotun's knowledge, based on laboratory testing and practical experience. Jotun's products are considered as semi-finished goods and as such, products are often used under conditions beyond Jotun's control. Jotun cannot guarantee anything but the quality of the product itself. Minor product variations may be implemented in order to comply with local requirements. Jotun reserves the right to change the given data without further notice.

Users should always consult Jotun for specific guidance on the general suitability of this product for their needs and specific application practices.

If there is any inconsistency between different language issues of this document, the English (United Kingdom) version will prevail.

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# **Ultra Topcoat**

# Exposure Scenario: Uses in Coatings - Industrial use

Sector of Use : Industrial use

Process Category : PROC05 PROC07 PROC08a PROC10

Environmental release category(ies) : ERC4

Covers the use in coatings (paints, inks, adhesives, etc) including exposures during use (including product transfer and preparation, application by brush, spray by hand or similar methods) and equipment cleaning.

### Operational conditions and risk management measures

# Control of worker exposure

Frequency and duration of use	: Covers daily exposures up to 8 hours (unless stated differently)
General - Operational conditions	: Assumes use at not more than 20°C above ambient temperature, unless stated differently. Assumes a good basic standard of occupational hygiene is implemented
General - Risk management measures	: Wear chemical-resistant gloves (tested to EN374) in combination with 'basic' employee training. Wear suitable coveralls to prevent exposure to the skin. Use suitable eye protection. See Section 8 for information on appropriate personal protective equipment.

#### Type of activity or process Risk management measures

Type or area in process	
Preparation of material for application	: Provide a good standard of controlled ventilation (10 to 15 air changes per hour).
Roller, spreader, flow application	: Provide extract ventilation to points where emissions occur.
Spraying - Manual	<ul> <li>Carry out in a vented booth provided with laminar airflow.</li> <li>or</li> <li>Provide a good standard of controlled ventilation (10 to 15 air changes per hour). and Wear a respirator conforming to EN140 with type A/P2 filter or better.</li> </ul>

### Control of environmental exposure

Organisational measures to prevent/limit release from site	: Prevent environmental discharge consistent with regulatory requirements.
Conditions and measures related to external treatment of waste for disposal	: External treatment and disposal of waste should comply with applicable local and/or national regulations. See Section 13 for additional waste treatment information.
Conditions and measures related to external recovery of waste	External recovery and recycling of waste should comply with applicable local and/or national regulations.

### Additional information

The exposure scenario for the mixture is based on the following substances:

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# **Ultra Topcoat**

# Exposure Scenario: Uses in Coatings - Professional use

Sector of Use : Professional use

Process Category : PROC05 PROC08a PROC10 PROC11

Environmental release category(ies) : ERC8a ERC8d

Covers the use in coatings (paints, inks, adhesives, etc) including exposures during use (including product transfer and preparation, application by brush, spray by hand or similar methods) and equipment cleaning.

### Operational conditions and risk management measures

# Control of worker exposure

Frequency and duration of use	: Covers daily exposures up to 8 hours (unless stated differently)
General - Operational conditions	: Assumes use at not more than 20°C above ambient temperature, unless stated differently. Assumes a good basic standard of occupational hygiene is implemented
General - Risk management measures	: Wear chemical-resistant gloves (tested to EN374) in combination with 'basic' employee training. Wear suitable coveralls to prevent exposure to the skin. Use suitable eye protection. See Section 8 for information on appropriate personal protective equipment.

Type of activity or process	Risk management measures
Preparation of material for application - Indoor	: Provide a good standard of controlled ventilation (10 to 15 air changes per hour). Avoid carrying out activities involving exposure for more than 1 hour. or Provide a good standard of controlled ventilation (10 to 15 air changes per hour). Wear a respirator conforming to EN140 with type A/P2 filter or better.
Preparation of material for application - Outdoor	: Ensure operation is undertaken outdoors. Avoid carrying out activities involving exposure for more than 1 hour. or Ensure operation is undertaken outdoors. Wear a respirator conforming to EN140 with type A/P2 filter or better.
Equipment cleaning and maintenance	: Drain down system prior to equipment break-in or maintenance. Avoid carrying out activities involving exposure for more than 4 hours.
Roller, spreader, flow application - Indoor	: Provide a good standard of controlled ventilation (10 to 15 air changes per hour). Wear a respirator conforming to EN140 with type A/P2 filter or better.
Roller, spreader, flow application - Outdoor	: Ensure operation is undertaken outdoors. Wear a respirator conforming to EN140 with type A/P2 filter or better.
Spraying - Manual - Indoor	: Minimise exposure by partial enclosure of the operation or equipment and provide extract ventilation at openings. Wear a respirator conforming to EN140 with type A/P2 filter or better.
Spraying - Manual - Outdoor	: Ensure operation is undertaken outdoors. Wear a full-face respirator conforming to EN136 with Type A/P2 filter or better. Avoid carrying out activities involving exposure for more than 4 hours.

#### Control of environmental exposure

Organisational measures to prevent/limit release from site	: Prevent environmental discharge consistent with regulatory requirements.
Conditions and measures related to external treatment of waste for disposal	: External treatment and disposal of waste should comply with applicable local and/or national regulations. See Section 13 for additional waste treatment information.
Conditions and measures related to external recovery of waste	External recovery and recycling of waste should comply with applicable local and/or national regulations.

### Additional information

The exposure scenario for the mixture is based on the following substances:

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