2015/830 - Europe

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revision



## SAFETY DATA SHEET

**HARDENER 007 1610** 

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

#### 1.1 Product identifier

Product name : HARDENER 007 1610

**Product description**: Hardener.

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

Recommended use: Painting work

Only for industrial and professional use. The product is not intended for consumer use.

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

**Manufacturer or Distributor** 

Tikkurila Oyj P.O. Box 53 FI-01301 VANTAA

**FINLAND** 

Telephone +358 20 191 2000

e-mail address of person : Tikkurila Oyj, responsible for this SDS : Product Safety,

e-mail: productsafety@tikkurila.com

### 1.4 Emergency telephone number

Telephone number : 112

(24h)

Supplier or Manufacturer

Telephone number : Tikkurila Oyj

+358 20 191 2000 (GMT +2) Mon-Fri 8-16

## **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

Product definition : Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Flam. Liq. 3, H226 Acute Tox. 4, H332 Skin Sens. 1, H317 STOT SE 3, H335 Aquatic Chronic 3, H412

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

#### 2.2 Label elements

Hazard pictograms





Signal word : Warning

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Hazard statements : H226 - Flammable liquid and vapor.

H332 - Harmful if inhaled.

H317 - May cause an allergic skin reaction. H335 - May cause respiratory irritation.

H412 - Harmful to aquatic life with long lasting effects.

**Precautionary statements** 

General : Not applicable.

**Prevention**: P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking.

P261 - Avoid breathing mist/vapors/spray. P273 - Avoid release to the environment.

P280 - Wear protective gloves/clothing and eye/face protection.
P284 - In case of inadequate ventilation wear respiratory protection.
P302 + P352 - IF ON SKIN: Wash with plenty of soap and water.

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water.
P312 - Call a POISON CENTER or physician if you feel unwell.

Storage : Not applicable.

Disposal : Not applicable.

Hazardous ingredients : aliphatic polyisocyanate

hexamethylene diisocyanate, oligomers

hexamethylene diisocyanate

Supplemental label

elements

Response

: Contains isocyanates. May produce an allergic reaction.

#### 2.3 Other hazards

Other hazards which do not result in classification

: None known.

## **SECTION 3: Composition/information on ingredients**

## 3.2 Mixtures : Mixture

3.2 Wilklures	iviixture			
			Classification	
Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Notes
ethyl 3-ethoxypropionate	EC: 212-112-9 CAS: 763-69-9	≥25 - ≤50	Flam. Liq. 3, H226 EUH066	-
aliphatic polyisocyanate	CAS: 160994-68-3	≥25 - ≤48	Acute Tox. 4, H332 Skin Sens. 1, H317 STOT SE 3, H335 Aquatic Chronic 3, H412	-
hexamethylene diisocyanate, oligomers	REACH #: 01-2119485796-17 EC: 500-060-2 CAS: 28182-81-2	≥25 - ≤48	Acute Tox. 4, H332 Skin Sens. 1, H317 STOT SE 3, H335	-
butyl glycol acetate	REACH #: 01-2119475112-47 EC: 203-933-3 CAS: 112-07-2 Index: 607-038-00-2	≤10	Acute Tox. 4, H302 Acute Tox. 4, H312 Acute Tox. 4, H332	-
2-methoxy-1-methylethyl acetate	REACH #: 01-2119475791-29 EC: 203-603-9 CAS: 108-65-6 Index: 607-195-00-7	≤10	Flam. Liq. 3, H226	-
hexamethylene diisocyanate	REACH #: 01-2119457571-37 EC: 212-485-8 CAS: 822-06-0	≤0.3	Acute Tox. 4, H302 Acute Tox. 1, H330 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Resp. Sens. 1, H334 Skin Sens. 1, H317 STOT SE 3, H335 See Section 16 for the full text of the H statements declared above.	2

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There are no additional ingredients present which, within the current knowledge of the supplier, are classified and contribute to the classification of the substance and hence require reporting in this section.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs or vPvBs or have been assigned a workplace exposure limit and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Notes, if applicable, refer to Notes given in Annex VI of 1272/2008/EC.

## **SECTION 4: First aid measures**

## 4.1 Description of first aid measures

General : In all cases of doubt, or when symptoms persist, seek medical attention. Show this

safety data sheet or label to the doctor if possible.

Eye contact : Check for and remove any contact lenses. Immediately flush eyes with plenty of

lukewarm water, keeping eyelids open. Continue to rinse for at least 15 minutes.

Get medical attention if symptoms occur.

**Inhalation** : Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is

irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by

trained personnel. Get medical attention.

**Skin contact**: Remove contaminated clothing and shoes. Wash skin thoroughly with soap and

water or use recognized skin cleanser. Do NOT use solvents or thinners. Get

medical attention if symptoms occur.

**Ingestion** : If accidentally swallowed rinse the mouth with plenty of water (only if the person is

conscious) and obtain immediate medical attention. Remove to fresh air and keep

at rest in a position comfortable for breathing. Do NOT induce vomiting.

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

Harmful if inhaled.

May cause respiratory irritation.

May cause an allergic skin reaction.

Inhalation of vapours may cause dizziness, headache and nausea.

See Section 11 for more detailed information on health effects and symptoms.

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

None.

## **SECTION 5: Firefighting measures**

## 5.1 Extinguishing media

Suitable extinguishing media

: Use an extinguishing agent suitable for the surrounding fire. Recommended: Alcohol resistant foam, CO<sub>2</sub>, powders or water spray/mist.

Unsuitable extinguishing media

: Do not use a direct water jet that could spread the fire.

## 5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture

: Flammable liquid and vapor. Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard.

Hazardous combustion products

: In a fire or when exposed to high temperatures, hazardous decomposition products may be produced, such as carbon monoxide, smoke, oxides of nitrogen, hydrogen cyanide and isocyanate compounds.

#### 5.3 Advice for firefighters

Special protective actions for fire-fighters

: Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. This material is hazardous to aquatic organisms. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

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Special protective equipment for fire-fighters

 Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

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

- 6.1 Personal precautions, protective equipment and emergency procedures
- shut off all ignition sources. No flares, smoking or flames in hazard area. Provide adequate ventilation. Avoid breathing vapor or mist. Avoid direct skin contact with product. See Section 8 for information on appropriate personal protective equipment.
- 6.2 Environmental precautions
- : Hazardous to aquatic environment. Do not allow to enter drains, water courses or soil.
- 6.3 Methods and materials for containment and cleaning up
- : Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in a suitable container. The contaminated area should be cleaned immediately with a suitable decontaminant. One possible (flammable) decontaminant comprises (by volume): water (45 parts), ethanol or isopropyl alcohol (50 parts) and concentrated (d: 0,880) ammonia solution (5 parts). A non-flammable alternative is sodium carbonate (5 parts) and water (95 parts). Add the same decontaminant to the remnants and let stand for several days until no further reaction in an unsealed container. Once this stage is reached, close container and dispose of according to local regulations (see section 13).
- 6.4 Reference to other sections
- : See Section 1 for emergency contact information. See Section 13 for additional waste treatment information.

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

## 7.1 Precautions for safe handling

• Wapors are heavier than air and may spread along floors. Vapors may form explosive mixtures with air. Prevent the creation of flammable or explosive concentrations of vapors in air and avoid vapor concentrations higher than the occupational exposure limits. Isolate from sources of heat, sparks and open flame. In addition, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard. Mixture may charge electrostatically: always use earthing leads when transferring from one container to another. No sparking tools should be used.

Persons with a history of asthma, allergies, chronic or recurrent respiratory disease should not be exposed to any process in which this product is used. Skin contact with the product and exposure to spray mist and vapor should be avoided. Avoid contact with skin and eyes. Avoid inhalation of dust from sanding. Wear appropriate respirator when ventilation is inadequate. See Section 8 for information on appropriate personal protective equipment. Eating, drinking and smoking should be prohibited in areas where this material is handled and stored. Wash hands before breaks and immediately after handling the product. Avoid release to the environment.

Precautions should be taken to minimize exposure to atmospheric humidity or water. CO<sub>2</sub> will be formed, which, in closed containers, could result in pressurization. Care should be taken when re-opening partly-used containers.

- 7.2 Conditions for safe storage, including any incompatibilities
- : Store away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10). Store and use away from heat, sparks, open flame or any other ignition source. No smoking. Keep container tightly closed. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Recommended storage temperature is +5°C ...+25°C. Store in accordance with local regulations.

### 7.3 Specific end use(s)

: None.

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

## 8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values		
butyl glycol acetate	EU OEL (Europe, 2/2017). Absorbed through skin. Notes: list of indicative occupational exposure limit values  TWA: 20 ppm 8 hours.  TWA: 133 mg/m³ 8 hours.  STEL: 50 ppm 15 minutes.  STEL: 333 mg/m³ 15 minutes.		
2-methoxy-1-methylethyl acetate	EU OEL (Europe, 2/2017). Absorbed through skin. Notes: list of indicative occupational exposure limit values  TWA: 50 ppm 8 hours.  TWA: 275 mg/m³ 8 hours.  STEL: 100 ppm 15 minutes.  STEL: 550 mg/m³ 15 minutes.		

procedures

Recommended monitoring : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.

**DNELs/DMELs** 

No DNELs/DMELs available.

**PNECs** 

No PNECs available.

#### 8.2 Exposure controls

### Appropriate engineering controls

Persons with a history of asthma, allergies, chronic or recurrent respiratory disease should not be exposed to any process in which this product is used. Provide adequate ventilation. Use explosion-proof ventilation equipment. Airfed protective respiratory equipment must be worn by the spray operator, even when good ventilation is provided. In other operations, if local exhaust ventilation and good general extraction are not sufficient to maintain concentrations of particulates and solvent vapors below the OEL, suitable respiratory protection must be worn. (See Personal Protection.) Comply with the health and safety at work laws.

#### Individual protection measures

Eye/face protection

: Use safety eyewear designed to protect against splash of liquids (EN166).

Hand protection

: Always wear approved protective gloves against chemicals. Gloves should be replaced regularly and if there is any sign of damage to the glove material. The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed.

Recommended glove material (EN374):

< 1 hour (breakthrough time): nitrile rubber, fluor rubber

> 8 hours (breakthrough time): laminated foil

Not recommended: PVC or natural rubber (latex) gloves

Skin protection

: Wear suitable protective clothing. This product is classified as flammable. If necessary, personnel should wear antistatic clothing made of natural fibers or of high-temperature-resistant synthetic fibers.

Respiratory protection

: If ventilation is inadequate, use respirator that will protect against organic vapor and dust/mist. During spray-application use air-fed respirator (EN12941:1998). By other operations than spraying, in well ventilated areas, air-fed respirators could be replaced by a combination charcoal filter and particulate filter mask (EN140:1998). Under cool, dry conditions, it is possible for the isocyanate to remain unreacted in the paint film over 30 hours after application. If dry flatting is unavoidable, air-fed respiratory protective equipment (EN12941:1998) should be used during sanding. Be sure to use an approved/certified respirator or equivalent. Check that mask fits tightly and change filter regularly.

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Environmental exposure controls

: For information regarding environmental protection measures, please refer to section 13 for waste handling, section 7 for handling and storage and section 1.2 for relevant identified uses of the substance or mixture and uses advised against.

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

## 9.1 Information on basic physical and chemical properties

**Appearance** 

Physical state : Liquid.
Color : Clear.
Odor : Strong.

Odor threshold : Not relevant for the hazard assessment of the product.

pH : Not relevant for the hazard assessment of the product.

Melting point/freezing point Initial boiling point and

boiling range

Flash point

: -66°C (2-methoxy-1-methylethyl acetate): 145.8°C (2-methoxy-1-methylethyl acetate)

: 42 °C (2-methoxy-1-methylethyl acetate)
: Not relevant due to the nature of the product.

Flammability (solid, gas) : Not applicable. Product is a liquid.

Upper/lower flammability or

explosive limits

**Evaporation rate** 

: Lower: 1.5% (2-methoxy-1-methylethyl acetate) Upper: 7% (2-methoxy-1-methylethyl acetate)

Vapor density : 4.6 (2-methoxy-1-methylethyl acetate)

Density : 1.06 g/cm<sup>3</sup>

Solubility(ies) : insoluble in water.

Partition coefficient: n-octanol/ : Not available.

water

Auto-ignition temperature : 333°C (2-methoxy-1-methylethyl acetate)

Decomposition temperature : Not relevant for the hazard assessment of the product.Viscosity : Not relevant for the hazard assessment of the product.

Explosive properties : No explosive ingredients present.

Oxidizing properties : No oxidizing ingredients present.

### 9.2 Other information

No additional information.

## **SECTION 10: Stability and reactivity**

**10.1 Reactivity** : See Section 10.5.

**10.2 Chemical stability** : Stable under recommended storage and handling conditions (see Section 7).

10.3 Possibility of hazardous reactions

: May present an explosion hazard when material is suspended in air in confined areas or equipment and subjected to spark, heat or flame.

Reacts slowly with water, resulting in the production of carbon dioxide. In closed

containers, pressure buildup could result in bursting of the container.

10.4 Conditions to avoid : Avoid extreme heat and freezing. Avoid all possible sources of ignition (spark or flame).

**10.5 Incompatible materials** : Keep away from the following materials to prevent strong exothermic reactions:

oxidizing agents strong acids strong alkalis amines alcohols

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## 10.6 Hazardous decomposition products

When exposed to high temperatures, hazardous decomposition products may be produced, such as carbon monoxide and dioxide, smoke, oxides of nitrogen etc. Fire will produce dense black smoke.

Welding, grinding and other hot work on the already-coated substrate may cause free isocyanates to be formed and released.

## **SECTION 11: Toxicological information**

## 11.1 Information on toxicological effects

There is no testdata available on the product itself.

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

Exposure to component solvent vapor 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. Repeated exposure may lead to permanent respiratory disability. Repeated or prolonged skin contact may lead to allergic contact dermatitis. If splashed in the eyes, the liquid may cause irritation and reversible damage. Ingestion may cause nausea, diarrhea and vomiting.

### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
mexamethylene diisocyanate, oligomers	LC50 Inhalation Dusts and mists	Rat	18500 mg/m³	1 hours
butyl glycol acetate	LD50 Dermal	Rabbit	1500 mg/kg	-
	LD50 Dermal	Rabbit	1500 mg/kg	-
	LD50 Oral	Rat	1880 mg/kg	-
hexamethylene diisocyanate	LC50 Inhalation Dusts and mists	Rat	124 mg/m³	4 hours

Harmful if inhaled.

Irritation/Corrosion

Not classified.

Sensitization

May cause an allergic skin reaction.

Contains small amounts of sensitizing substances:

hexamethylene diisocyanate

Mutagenicity

Not classified.

Carcinogenicity

Not classified.

Reproductive toxicity

Not classified.

**Teratogenicity** 

Not classified.

Specific target organ toxicity (single exposure)

May cause respiratory irritation.

Specific target organ toxicity (repeated exposure)

Not classified.

**Aspiration hazard** 

Not classified.

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## **SECTION 12: Ecological information**

Ecological testing has not been conducted on this product.

Do not allow to enter drains, water courses or soil.

The product is classified as environmetally hazardous according to Regulation (EC) 1272/2008. Harmful to aquatic life with long lasting effects.

## 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
atiphatic polyisocyanate	LC50 28.3 mg/l	Fish	96 hours

## 12.2 Persistence and degradability

Product/ingredient name	Test	Result		Dose		Inoculum
vutyl glycol acetate	-	88 % - Rea	ıdily - 28 days	-		-
Product/ingredient name	Aquatic half-life		Photolysis		Biodeg	radability
tyl glycol acetate	-		-		Readily	
hexamethylene diisocyanate, oligomers	-		50%; 10.3 day(s)		Not rea	dily

## 12.3 Bioaccumulative potential

Product/ingredient name	LogP <sub>ow</sub>	Bioconcentration factor [BCF]	Potential
xexamethylene diisocyanate	0.02	57.63	low
2-methoxy-1-methylethyl acetate	1.2	-	low
butyl glycol acetate	1.51	3.2	low
hexamethylene diisocyanate, oligomers	5.54	367.7	low
ethyl 3-ethoxypropionate	1.47	-	low

## 12.4 Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

**Mobility** 

: Not available.

## 12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

**12.6 Other adverse effects** : Not available.

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## **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

#### **Product**

Methods of disposal

: Residues in empty containers should be neutralized with a decontaminant (see section 6). Liquid residue and cleaning liquids are hazardous waste and must not be emptied into drains or sewage system, but handled in accordance with national regulations. Product residues should be left at special companies which have permission for gathering this kind of wastes.

## European waste catalogue (EWC)

Waste code	Waste designation
08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances

If this product is mixed with other wastes, the original waste product code may no longer apply and the appropriate code should be assigned. For further information, contact your local waste authority.

### **Packaging**

Methods of disposal

: Empty packaging should be recycled or disposed of in accordance with national

regulations.

Special precautions

: None.

## **SECTION 14: Transport information**

	ADR/RID	IMDG	IATA
14.1 UN number	UN1263	UN1263	UN1263
14.2 UN proper shipping name	PAINT RELATED MATERIAL	PAINT RELATED MATERIAL	PAINT RELATED MATERIAL
14.3 Transport hazard class(es)	3	3	3
14.4 Packing group	Ш	III	III
14.5 Environmental hazards	No.	No.	No.

#### **Additional information**

ADR/RID : Tunnel code (D/E)

**IMDG**: **Emergency schedules** F-E,S-E

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.

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

: Not available.

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## **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)

Other EU regulations

**Europe inventory**: Not determined.

15.2 Chemical Safety

Assessment

: This product contains substances for which Chemical Safety Assessments are still

required.

## **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]

DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level

EUH statement = CLP-specific Hazard statement PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number

vPvB = Very Persistent and Very Bioaccumulative

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

Flam. Liq. 3, H226

Acute Tox. 4, H332

Skin Sens. 1, H317

STOT SE 3, H335

Aquatic Chronic 3, H412

On basis of test data
Calculation method
Calculation method
Calculation method

Classification

Full text of abbreviated H

statements

: H226 Flammable liquid and vapor.

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H330 Fatal if inhaled. H332 Harmful if inhaled.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335 May cause respiratory irritation.

H412 Harmful to aquatic life with long lasting effects.

Full text of classifications

[CLP/GHS]

: Acute Tox. 1, H330 ACUTE TOXICITY (inhalation) - Category 1
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

Aquatic Chronic 3, H412 AQUATIC HAZARD (LONG-TERM) - Category 3
EUH066 Repeated exposure may cause skin dryness or cracking.

Eye Irrit. 2, H319 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 Flam. Lig. 3, H226 FLAMMABLE LIQUIDS - Category 3

Resp. Sens. 1, H334
Skin Irrit. 2, H315
RESPIRATORY SENSITIZATION - Category 2

Skin Sens. 1, H317 SKIN SENSITIZATION - Category 1

STOT SE 3, H335 SPECIFIC TARGET ORGAN TOXICITY (SINGLE

EXPOSURE) (Respiratory tract irritation) - Category 3

**Justification** 

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Notice to reader

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This Safety Data Sheet is prepared in accordance with Annex II (EU) No 830/2015 to Regulation (EC) No 1907/2006 (REACH). The information contained in this Safety Data Sheet is based on the present state of knowledge and current EU and national legislation. It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications.

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