## SAFETY DATA SHEET



## **Tankguard 412 Comp B**

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

#### 1.1 Product identifier

identification

Product name : Tankguard 412 Comp B

Product code : 2064
Product description : Hardener.
Product type : Liquid.
Other means of : Not available.

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

**Identified uses** 

Use in coatings - Industrial use

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

MANUFACTURER/SUPPLIER: Jotun Paints (Europe) Ltd. Stather Road Flixborough, Scunthorpe North Lincolnshire DN15 8RR England

Tel: +44 17 24 40 00 00 Fax: +44 17 24 40 01 00 SDSJotun@jotun.com

## 1.4 Emergency telephone number

Contact NHS Direct; phone 0845 4647 or 111. Open 24/7.

## **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]

Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Chronic 3, H412

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

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

#### 2.2 Label elements

Hazard pictograms





Signal word : Danger.

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## **SECTION 2: Hazards identification**

**Hazard statements** : H314 - Causes severe skin burns and eye damage.

H317 - May cause an allergic skin reaction.

H412 - Harmful to aquatic life with long lasting effects.

**Precautionary statements** 

General : Not applicable.

Prevention : P280 - Wear protective gloves. Wear eye or face protection. Wear protective

clothing.

P273 - Avoid release to the environment.

Response : P304 + P340 + P310 - IF INHALED: Remove person to fresh air and keep

comfortable for breathing. Immediately call a POISON CENTER or physician. P301 + P310 + P331 - IF SWALLOWED: Immediately call a POISON CENTER or

physician. Do NOT induce vomiting.

P303 + P361 + P353 + P310 - IF ON SKIN (or hair): Take off immediately all

contaminated clothing. Rinse skin with water or shower. Immediately call a POISON

CENTER or physician.

P333 + P313 - If skin irritation or rash occurs: Get medical attention.

P305 + P351 + P338 + P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Immediately call a POISON CENTER or physician.

Storage : P405 - Store locked up.

Disposal : P501 - Dispose of contents and container in accordance with all local, regional,

national and international regulations.

**Hazardous ingredients** : 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,

3-epoxypropane, reaction products with 3-aminomethyl-3,5,

5-trimethylcyclohexylamine

3-aminomethyl-3,5,5-trimethylcyclohexylamine

Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine

Supplemental label

elements

: Not applicable.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles : Not applicable.

Special packaging requirements

Containers to be fitted with child-resistant

fastenings

: Not applicable.

Tactile warning of danger : Not applicable.

2.3 Other hazards

Other hazards which do not result in classification

: None known.

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

Substance/mixture		M	ixture
Product/ingredient	namo		

Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Туре

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

<u> </u>		1	1 –	1
benzyl alcohol	REACH #:	≥25 - ≤36	Acute Tox. 4, H302	[1]
	01-2119492630-38		Acute Tox. 4, H332	
	EC: 202-859-9			
	CAS: 100-51-6			
4,4'-Isopropylidenediphenol,	REACH #:	≥25 - ≤50	Skin Corr. 1B, H314	[1]
oligomeric reaction products with	01-2119965165-33	-20 -00	Eye Dam. 1, H318	
	EC: 500-101-4			
1-chloro-2,3-epoxypropane,			Skin Sens. 1, H317	
reaction products with	CAS: 38294-64-3		Aquatic Chronic 3, H412	
3-aminomethyl-3,5,				
5-trimethylcyclohexylamine				
3-aminomethyl-3,5,	REACH #:	≥10 - ≤20	Acute Tox. 4, H302	[1]
5-trimethylcyclohexylamine	01-2119514687-32		Acute Tox. 4, H312	
	EC: 220-666-8		Skin Corr. 1B, H314	
	CAS: 2855-13-2		Eye Dam. 1, H318	
	Index: 612-067-00-9		Skin Sens. 1, H317	
	111dex: 012 007 00 0		Aquatic Chronic 3, H412	
Optodoponoje spid 10 budrovu	FC: 200 620 0			[4]
Octadecanoic acid, 12-hydroxy-,	EC: 309-629-8	<1	Skin Sens. 1B, H317	[1]
reaction products with	CAS: 100545-48-0		Aquatic Chronic 3, H412	
ethylenediamine				
			See Section 16 for the full	
			text of the H statements	
			declared above.	
			decialed above.	

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, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

#### Type

Ingestion

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
- [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII
- [5] Substance of equivalent concern

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

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

## 4.1 Description of first aid measures

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G	eneral			:	Ir

: In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery

position and seek medical advice.

**Eye contact** : Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical

attention.

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.

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

water or use recognised skin cleanser. Do NOT use solvents or thinners.

: If swallowed, seek medical advice immediately and show the container or label.

Keep person warm and at rest. Do NOT induce vomiting.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate

mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing

thoroughly with water before removing it, or wear gloves.

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

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

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, fatique, 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 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine, 3-aminomethyl-3,5,5-trimethylcyclohexylamine, Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine. May produce an allergic reaction.

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

Notes to physician

: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

**Specific treatments** 

: No specific treatment.

See toxicological information (Section 11)

## SECTION 5: Firefighting measures

## 5.1 Extinguishing media

Suitable extinguishing

media

: Recommended: alcohol-resistant foam, CO<sub>2</sub>, powders, water spray.

**Unsuitable extinguishing** media

: Do not use water jet.

## 5.2 Special hazards arising from the substance or mixture

**Hazards from the** substance or mixture : Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.

**Hazardous combustion** products

: Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.

## 5.3 Advice for firefighters

**Special protective actions** for fire-fighters

: Cool closed containers exposed to fire with water. Do not release runoff from fire to drains or watercourses.

**Special protective** equipment for fire-fighters : Appropriate breathing apparatus may be required.

## SECTION 6: Accidental release measures

## 6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: Exclude sources of ignition and ventilate the area. Avoid breathing vapour or mist. Refer to protective measures listed in sections 7 and 8.

For emergency responders: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

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

# **6.2 Environmental precautions**

: Do not allow to enter drains or watercourses. If the product contaminates lakes, rivers, or sewers, inform the appropriate authorities in accordance with local regulations.

# 6.3 Methods and material 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 container for disposal according to local regulations (see Section 13). Preferably clean with a detergent. Avoid using solvents.

## 6.4 Reference to other sections

: See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

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

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).

#### 7.1 Precautions for safe handling

Prevent the creation of flammable or explosive concentrations of vapours in air and avoid vapour concentrations higher than the occupational exposure limits.

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.

Operators should wear antistatic footwear and clothing and floors should be of the conducting type.

Keep away from heat, sparks and flame. No sparking tools should be used.

Avoid contact with skin and eyes. Avoid the inhalation of dust, particulates, spray or mist arising from the application of this mixture. Avoid inhalation of dust from sanding.

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.

Put on appropriate personal protective equipment (see Section 8).

Never use pressure to empty. Container is not a pressure vessel.

Always keep in containers made from the same material as the original one.

Comply with the health and safety at work laws.

Do not allow to enter drains or watercourses.

## Information on fire and explosion protection

Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air.

When operators, whether spraying or not, have to work inside the spray booth, ventilation is unlikely to be sufficient to control particulates and solvent vapour in all cases. In such circumstances they should wear a compressed air-fed respirator during the spraying process and until such time as the particulates and solvent vapour concentration has fallen below the exposure limits.

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

Store in accordance with local regulations.

#### Notes on joint storage

Keep away from: oxidising agents, strong alkalis, strong acids.

## Additional information on storage conditions

Observe label precautions. Store in a dry, cool and well-ventilated area. Keep away from heat and direct sunlight. Keep away from sources of ignition. No smoking. Prevent unauthorised access. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

7.3 Specific end use(s)

solutions

Recommendations : Not available.

Industrial sector specific : Not available.

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## SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

## 8.1 Control parameters

#### Occupational exposure limits

No exposure limit value known.

# 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. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

#### **DNELs/DMELs**

Product/ingredient name	Exposure	Value	Population	Effects
benzyl alcohol	Short term	450 mg/m <sup>3</sup>	Workers	Systemic
	Inhalation			
	Long term	90 mg/m³	Workers	Systemic
	Inhalation			
	Short term Dermal	47 mg/kg bw/day	Workers	Systemic
	Long term Dermal	9.5 mg/kg bw/day	Workers	Systemic
	Short term Dermal	28.5 mg/ kg bw/day	Consumers	Systemic
	Short term Oral	25 mg/kg	Consumers	Systemic
		bw/day		.,
	Long term Dermal	5.7 mg/kg bw/day	Consumers	Systemic
	Long term Oral	5 mg/kg	Consumers	Systemic
		bw/day		
	Long term	8.11 mg/m <sup>3</sup>	Consumers	Systemic
	Inhalation			
	Short term	40.55 mg/	Consumers	Systemic
	Inhalation	m³		
3-aminomethyl-3,5,	Long term Oral	0.526 mg/	Consumers	Systemic
5-trimethylcyclohexylamine		kg bw/day		

## **PNECs**

Product/ingredient name	Compartment Detail	Value	Method Detail
benzyl alcohol	Fresh water	1 mg/l	-
	Marine	0.1 mg/l	-
	Sewage Treatment Plant	39 mg/l	-
	Fresh water sediment	5.27 mg/kg dwt	_
	Marine water sediment	0.527 mg/kg dwt	_
	Soil	0.456 mg/kg dwt	-
3-aminomethyl-3,5, 5-trimethylcyclohexylamine	Fresh water	0.06 mg/l	-
	Marine	0.006 mg/l	-
	Sewage Treatment Plant	3.18 mg/l	-
	Fresh water sediment	5.784 mg/kg dwt	_

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

Marine water sediment	0.578 mg/kg dwt	-
Soil	1.121 mg/kg dwt	_

#### 8.2 Exposure controls

## Appropriate engineering controls

: Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapours below the OEL, suitable respiratory protection must be worn.

#### **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. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

# Eye/face protection Skin protection Gloves

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

: 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.

Wear suitable gloves tested to EN374.

Recommended, gloves(breakthrough time) > 8 hours: neoprene, fluor rubber, Viton®, 4H, butyl rubber

May be used, gloves(breakthrough time) 4 - 8 hours: nitrile rubber, PVC

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.

## **Body protection**

: Personnel should wear antistatic clothing made of natural fibres or of high-temperature-resistant synthetic fibres.

## 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

: Do not allow to enter drains or watercourses.

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## 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 applicable. pН : Not applicable. Melting point/freezing point : Not applicable.

Initial boiling point and

boiling range

: Lowest known value: 205.3°C (401.5°F) (benzyl alcohol). Weighted average:

222.61°C (432.7°F)

Flash point : Closed cup: 100°C

: 0.007 (benzyl alcohol) compared with butyl acetate **Evaporation rate** 

Flammability (solid, gas) : Not applicable. : 1.2 - 13% Upper/lower flammability or

explosive limits

Vapour pressure : Highest known value: 0.02 kPa (0.2 mm Hg) (at 20°C) (benzyl alcohol).

Weighted average: 0.009 kPa (0.07 mm Hg) (at 20°C)

Vapour density : Highest known value: 3.7 (Air = 1) (benzyl alcohol).

**Density** : 1.1 g/cm<sup>3</sup>

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

Partition coefficient: n-octanol/ : Not available.

water

: Lowest known value: 380°C (716°F) (3-aminomethyl-3,5, **Auto-ignition temperature** 

5-trimethylcyclohexylamine).

**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.

## SECTION 10: Stability and reactivity

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

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

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

10.4 Conditions to avoid : When exposed to high temperatures may produce hazardous decomposition

products.

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

oxidising agents, strong alkalis, strong acids.

10.6 Hazardous : Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen. decomposition products

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## **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 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine, 3-aminomethyl-3,5,5-trimethylcyclohexylamine, Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine. May produce an allergic reaction.

#### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
J	LD50 Oral LD50 Oral	Rat Rat	1230 mg/kg 1030 mg/kg	

**Conclusion/Summary** 

: Not available.

## **Acute toxicity estimates**

Route	ATE value
	2030 mg/kg 5345 mg/kg
Inhalation (vapours)	30.54 mg/l

#### **Irritation/Corrosion**

Conclusion/Summary : Not available.

**Sensitisation** 

**Conclusion/Summary**: Not available.

**Mutagenicity** 

**Conclusion/Summary**: Not available.

**Carcinogenicity** 

**Conclusion/Summary**: Not available.

**Reproductive toxicity** 

Conclusion/Summary : Not available.

**Teratogenicity** 

Conclusion/Summary: Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

**Aspiration hazard** 

Not available.

Other information : Not available.

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## **SECTION 12: Ecological information**

## 12.1 Toxicity

There are no data available on the mixture itself.

Do not allow to enter drains or watercourses.

The mixture has been assessed following the summation method of the CLP Regulation (EC) No 1272/2008 and is classified for eco-toxicological properties accordingly. See Sections 2 and 3 for details.

Product/ingredient name	Result	Species	Exposure
3-aminomethyl-3,5, 5-trimethylcyclohexylamine	Acute EC50 17.4 to 21.5 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
a united yield in oxylaninie	Acute IC50 37 mg/l	Algae	72 hours

**Conclusion/Summary** 

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

## 12.2 Persistence and degradability

Conclusion/Summary : Not available. Biodegradability

Product/ingredient name	Aquatic half-life	Photolysis	
benzyl alcohol	-	-	Readily
3-aminomethyl-3,5,	-	-	Not readily
5-trimethylcyclohexylamine			

## 12.3 Bioaccumulative potential

Potential

<u> </u>			i Oteritiai
Product/ingredient name	LogPow	BCF	
benzyl alcohol 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2, 3-epoxypropane, reaction products with	0.87	<100 5.13	low low
3-aminomethyl-3,5, 5-trimethylcyclohexylamine 3-aminomethyl-3,5, 5-trimethylcyclohexylamine	0.99	-	low

## 12.4 Mobility in soil

Soil/water partition

coefficient (Koc)

: Not available.

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

**Product** 

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## **SECTION 13: Disposal considerations**

## **Methods of disposal**

The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

#### **Hazardous waste**

## **Disposal considerations**

: The classification of the product may meet the criteria for a hazardous waste.

## : Do not allow to enter drains or watercourses.

Dispose of according to all federal, state and local applicable regulations. 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.

# European waste catalogue (EWC)

## Packaging

## **Methods of disposal**

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

# : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

## **Disposal considerations**

: Using information provided in this safety data sheet, advice should be obtained from the relevant waste authority on the classification of empty containers. Empty containers must be scrapped or reconditioned.

Dispose of containers contaminated by the product in accordance with local or national legal provisions.

Type of packaging		European waste catalogue (EWC)
CEPE Paint Guidelines	15 01 10*	packaging containing residues of or contaminated by hazardous substances

## **Special precautions**

This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

## **SECTION 14: Transport information**

	ADR/RID	ADN	IMDG	IATA
14.1 UN number	2735	2735	2735	2735
14.2 UN proper shipping name	Polyamines, liquid, corrosive, n.o.s. (3-aminomethyl-3,5, 5-trimethylcyclohexylamine, 4,4'- Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5, 5-trimethylcyclohexylamine)	Polyamines, liquid, corrosive, n.o.s. (3-aminomethyl-3,5, 5-trimethylcyclohexylamine, 4,4'- Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5, 5-trimethylcyclohexylamine)	Polyamines, liquid, corrosive, n.o.s. (3-aminomethyl-3,5, 5-trimethylcyclohexylamine, 4,4'- Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5, 5-trimethylcyclohexylamine)	Polyamines, liquid, corrosive, n.o.s. (3-aminomethyl-3,5, 5-trimethylcyclohexylamine, 4,4'- Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5, 5-trimethylcyclohexylamine)
14.3 Transport hazard class(es)	8	8	8	8
14.4 Packing group	III	III	III	III

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## **SECTION 14: Transport information**

14.5 Environmental hazards	No.	Yes.	No.	No.
Additional information	Hazard identification number 80 Tunnel code (E)	The product is only regulated as an environmentally hazardous substance when transported in tank vessels.	Emergency schedules (EmS) F-A, S-B	-

14.6 Special precautions for : 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 : Not applicable.

Marpol and the IBC Code **IMDG Code Segregation** 

: 18- Alkalis

group

## 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

**Annex XIV** 

None of the components are listed.

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

VOC : The provisions of Directive 2004/42/EC on VOC apply to this product. Refer to the

product label and/or technical data sheet for further information.

**VOC for Ready-for-Use** 

**Mixture** 

: Not applicable.

: At least one component is not listed. **Europe inventory** 

Ozone depleting substances (1005/2009/EU)

Not listed.

Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

## **Seveso Directive**

This product is not controlled under the Seveso Directive.

## **National regulations**

Industrial use

: The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation. The provisions of the national health and safety at work regulations apply to the use of this product at work.

## International regulations

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## **SECTION 15: Regulatory information**

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol (Annexes A, B, C, E)

Not listed.

**Stockholm Convention on Persistent Organic Pollutants** 

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

**UNECE Aarhus Protocol on POPs and Heavy Metals** 

Not listed.

15.2 Chemical safety

: Not applicable.

assessment

## **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]

Classification	Justification
Skin Corr. 1B, H314	Calculation method
Eye Dam. 1, H318	Calculation method
Skin Sens. 1, H317	Calculation method
Aquatic Chronic 3, H412	Calculation method

## Full text of abbreviated H statements

H302 H312 H314 H317 H318	Harmful if swallowed. Harmful in contact with skin. Causes severe skin burns and eye damage. May cause an allergic skin reaction. Causes serious eye damage.
	, ,
H332 H412	Harmful if inhaled. Harmful to aquatic life with long lasting effects.
1	The same of the sa

## 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
Aquatic Chronic 3, H412	LONG-TERM AQUATIC HAZARD - Category 3
Eye Dam. 1, H318	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
Skin Corr. 1B, H314	SKIN CORROSION/IRRITATION - Category 1B
Skin Sens. 1, H317	SKIN SENSITISATION - Category 1
Skin Sens. 1B, H317	SKIN SENSITISATION - Category 1B

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## **SECTION 16: Other information**

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## **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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