

# Penguard Low Temp Additive

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

1.1 Product identifier	
Product name	: Penguard Low Temp Additive
EC number	: Not available.
CAS number	: Not available.
Product code	: 616
Product description	: Paint.
Product type	: Liquid.
Other means of identification	: Not available.

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

Use in coatings - Industrial use Use in coatings - Professional use

See Annex to the Safety data sheet for additional information in the Exposure Scenario(s).

**Identified uses** 

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

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

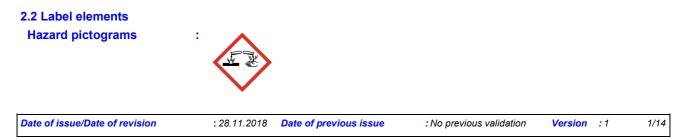
Product definition : Mono-constituent substance

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

Skin Corr. 1C, H314 Eye Dam. 1, H318

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.



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in	lentification
iU	ienuncation
:	Danger.
:	H314 - Causes severe skin burns and eye damage.
:	Not applicable.
:	P280 - Wear protective gloves. Wear eye or face protection. Wear protective clothing.
:	<ul> <li>P304 + P340 + P310 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or physician.</li> <li>P301 + P310 + P331 - IF SWALLOWED: Immediately call a POISON CENTER or physician. Do NOT induce vomiting.</li> <li>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.</li> <li>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.</li> </ul>
:	P405 - Store locked up.
:	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
:	Penguard Low Temp Additive (MM-WCSE)
:	Not applicable.
:	Not applicable.
<u>ien</u>	<u>ts</u>
:	Not applicable.
:	Not applicable.
:	No.
	P: Not available. B: Not available. T: No.
:	Not available.
:	None known.
	: : : : : : :

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

3.1 Substances

: Mono-constituent substance

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SECTION 3: Composition/information on ingredients					
Product/ingredient name	Identifiers	Weight %	Regulation (EC) No. 1272/2008 [CLP]	Туре	
2,4,6-tris(dimethylaminomethyl) phenol	REACH #: 01-2119560597-27 EC: 202-013-9 CAS: 90-72-2 Index: 603-069-00-0	100	Skin Corr. 1C, H314 Eye Dam. 1, H318	[A]	
			See Section 16 for the full text of the H statements declared above.		

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.

<u>Type</u>

[A] Constituent

[B] Impurity

[C] Stabilising additive

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

# 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. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and seek medical advice.
Eye contact	<ul> <li>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.</li> </ul>
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.
Ingestion	: 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

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.

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.

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SECTION 4: First aid measures			
4.3 Indication of any imm	ediate 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 f	rom 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**

Due to the organic solvents content of the mixture:

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".	
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	<ul> <li>See Section 1 for emergency contact information.</li> <li>See Section 8 for information on appropriate personal protective equipment.</li> <li>See Section 13 for additional waste treatment information.</li> </ul>	

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### Penguard Low Temp Additive

# **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

Due to the organic solvents content of the mixture:

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.

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.

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 container tightly closed.

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)

Recommendations	: Not available.
Industrial sector specific	: Not available.
solutions	

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

The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 8.1 Control parameters

**Occupational exposure limits** 

No exposure limit value known.

Recommended monitoring procedures	: 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
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#### SML MARINE PAINTS - TEL: 01285 862132 - WWW.SMLMARINEPAINTS.CO.UK

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

required.

### DNELs/DMELs

Product/ingredient name	Exposure	Value	Population	Effects
2,4,6-tris(dimethylaminomethyl)phenol	Long term Dermal	0.2 mg/kg bw/day	Workers	Systemic
	Long term Inhalation	0.31 mg/m <sup>3</sup>	Workers	Systemic

### **PNECs**

Product/ingredient name	Compartment Detail	Value	Method Detail
2,4,6-tris(dimethylaminomethyl)phenol	Marine	0.084 mg/l 0.0084 mg/l 0.2 mg/l	- -

#### 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 meas	ures
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	: Use safety eyewear designed to protect against splash of liquids.
Skin protection	
Gloves	<ul> <li>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/chemica 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) &gt; 8 hours: nitrile rubber, neoprene, buty rubber</li> <li>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.</li> </ul>
Body protection	<ul> <li>Personnel should wear antistatic clothing made of natural fibres or of high- temperature-resistant synthetic fibres.</li> </ul>
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.
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SECTION 8: Exposure controls/personal protection				
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.			

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

9.1 Information on basic physica	a	nd chemical properties
<u>Appearance</u>		
Physical state	4	Liquid.
Colour	4	White to yellowish.
Odour	1	Amine-like.
Odour threshold	1	Not applicable.
рН	1	11.3
Melting point/freezing point	1	Not applicable.
Initial boiling point and boiling range	:	>100°C (>212°F)
Flash point	1	Closed cup: Not applicable.
Evaporation rate	1	Not available.
Flammability (solid, gas)	1	Not applicable.
Upper/lower flammability or explosive limits	1	Not applicable.
Vapour pressure	1	Highest known value: 0.008 kPa (0.06 mm Hg) (at 20°C) (2,4,6-tris (dimethylaminomethyl)phenol).
Vapour density	1	Not available.
Density	1	0.98 g/cm <sup>3</sup>
Solubility(ies)	1	Insoluble in the following materials: cold water and hot water.
Partition coefficient: n-octanol/ water	1	Not available.
Auto-ignition temperature	1	Not applicable.
Decomposition temperature	1	Not available.
Viscosity	1	Kinematic (40°C): >0.205 cm²/s (>20.5 mm²/s)
Explosive properties	1	Not available.
Oxidising properties	;	Not available.
9.2 Other information		

Solubility in water No additional information.

# **SECTION 10: Stability and reactivity**

: 850 g/l

10.1 Reactivity	1	o 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 products.	s may produce hazardous decomposition				
10.5 Incompatible materials	:	Keep away from the following materi oxidising agents, strong alkalis, stror	ials to prevent strong exothermic reactions: ng acids.				
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# **SECTION 10: Stability and reactivity**

10.6 Hazardous decomposition products

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

# **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.

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.

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
2,4,6-tris (dimethylaminomethyl) phenol	LD50 Oral	Rat	1673 mg/kg	-

**Conclusion/Summary** : Not available.

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
2,4,6-tris (dimethylaminomethyl) phenol	Eyes - Severe irritant	Rabbit	-	24 hours 50 Micrograms	-
	Skin - Mild irritant	Rat	-	0.025 Mililiters	-
	Skin - Severe irritant	Rat	-	0.25 Mililiters	-
	Skin - Severe irritant	Rabbit	-	24 hours 2 milligrams	-
Conclusion/Summary	: Not available.				
<u>Sensitisation</u>					
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 toxicit	<u>y (single exposure)</u>				
Not available.					
Specific target organ toxicit	<u>y (repeated exposure)</u>				
Not available.					

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# **SECTION 11: Toxicological information**

Aspiration hazard

Not available.

Other information : Not available.

### **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 not classified as hazardous to the environment.

**Conclusion/Summary** : No known significant effects or critical hazards.

#### 12.2 Persistence and degradability

**Conclusion/Summary** : Not available.

#### 12.3 Bioaccumulative potential

			i otoritidi
Product/ingredient name	LogPow	BCF	
2,4,6-tris (dimethylaminomethyl) phenol	0.219	-	low

Potential

#### 12.4 Mobility in soil

Soil/water partition coefficient (Koc)	: Not available.
Mobility	: Not available.

#### 12.5 Results of PBT and vPvB assessment

PBT	: No.
	P: Not available. B: Not available. T: No.
vPvB	: Not available.
	vP: Not available. vB: Not available.

12.6 Other adverse effects

# 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).

: No known significant effects or critical hazards.

#### 13.1 Waste treatment methods **Product** : The generation of waste should be avoided or minimised wherever possible. Methods of disposal 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 nonrecyclable 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** : The classification of the product may meet the criteria for a hazardous waste.

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# **SECTION 13: Disposal considerations**

Disposal considerations	Dispose of a If this produc longer apply	: 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 n longer apply and the appropriate code should be assigned. For further information, contact your local waste authority.			
European waste catalogue (EWC)	: 08 01 11* Wa substances	08 01 11* Waste paint and varnish containing organic solvents or other dangerous substances			
Packaging					
Methods of disposal	: 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	the relevant v Empty contai	ation provided in this safety data sheet, advice should be obtained from waste authority on the classification of empty containers. ners must be scrapped or reconditioned. ontainers contaminated by the product in accordance with local or I 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	taken when h Empty contai	and its container must be disposed of in a safe way. Care should be nandling emptied containers that have not been cleaned or rinsed out. ners or liners may retain some product residues. Avoid dispersal of and runoff and contact with soil, waterways, drains and sewers.			

# **SECTION 14: Transport information**

	•			
	ADR/RID	ADN	IMDG	ΙΑΤΑ
14.1 UN number	1760	1760	1760	1760
14.2 UN proper shipping name	Corrosive liquid, n.o.s. (2,4,6-tris (dimethylaminomethyl) phenol)	Corrosive liquid, n.o.s. (2,4,6-tris (dimethylaminomethyl) phenol)	Corrosive liquid, n.o.s. (2,4,6-tris (dimethylaminomethyl) phenol)	Corrosive liquid, n.o.s. (2,4,6-tris (dimethylaminomethyl) phenol)
14.3 Transport hazard class(es)	8	8	8	8
14.4 Packing group	111	111	111	111
14.5 Environmental hazards	No.	No.	No.	No.
Additional information	Tunnel restriction code: (E) Hazard identification number: 80	-	<u>Emergency</u> <u>schedules (EmS)</u> F-A, S-B	-

user

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 : Not applicable. according to Annex II of Marpol and the IBC Code

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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)	
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 : Not available.	
VOC for Ready-for-Use : Not applicable. Mixture	
Europe inventory : All components are listed or exempted.	
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 ap to the use of this product at work.	ply
International regulations	
Chemical Weapon Convention List Schedules I, II & III Chemicals	
Not listed.	
Montreal Protocol (Annexes A, B, C, E)	
Not listed.	
Steelehelm Convention on Demistert Organic Pollutente	
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	

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# **SECTION 16: Other information**

Indicates information that has changed from previously issued version.

Abbreviations and	: ATE = Acute Toxicity Estimate
acronyms	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. 1C, H314 Eye Dam. 1, H318		Calculation method Calculation method	
Full text of abbreviated H	<u>statements</u>		
H314 Causes severe skin H318 Causes serious eye		burns and eye damage. damage.	
Full text of classifications	[CLP/GHS]	·	
			AGE/EYE IRRITATION - Category 1 /IRRITATION - Category 1C
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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.



# Penguard Low Temp Additive

Exposure Scenario: Use in	Industrial use	
Sector of Use	: Industrial use	
Process Category	: PROC05 PROC08	Ba

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

Frequency and duration of use	: Covers daily exposures up to 8 hours
General - Operational conditions	: Assumes use at not more than 20°C above ambient temperature, unless stated differently.
General - Risk management measures	: Wear suitable gloves tested to EN374. 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	: Provide extract ventilation to points where emissions occur. Avoid carrying out activities involving exposure for more than 1 hour.
Preparation of material for application Control of environmental expo	exposure for more than 1 hour.
	exposure for more than 1 hour.
Control of environmental expo Organisational measures to prevent/limit	exposure for more than 1 hour.

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

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# Penguard Low Temp Additive

Exposure	Scenario:	Use in coatings -	Professional use

Sector of Use	: Professional use
Process Category	: PROC05 PROC08a
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**

: Covers daily exposures up to 8 hours
: Assumes use at not more than 20°C above ambient temperature, unless stated differently.
: Wear suitable gloves tested to EN374. Wear suitable coveralls to prevent exposure to the skin. Use suitable eye protection. See Section 8 for information on appropriate personal protective equipment.
Risk management measures
: Provide extract ventilation to points where emissions occur. Avoid carrying out activities involving exposure for more than 1 hour.
: Ensure operation is undertaken outdoors. Wear a respirator conforming to EN140 with type A/P2 filter or better. Avoid carrying out activities involving exposure for more than 1 hour.
: Drain down system prior to equipment break-in or maintenance. 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	<ul> <li>External recovery and recycling of waste should comply with applicable local and/or national regulations.</li> </ul>
Additional information	

#### Additional information

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

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