# SAFETY DATA SHEET

Date of issue/Date of revision

: 5 October 2021

: 13.01 Version



United

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

**1.1 Product identifier** 

Product name	: NUKLAD IMP HARDENER
Product code	: 00347569
Other means of identificat	ion
Not available.	

1.2 Relevant identified uses of the substance or mixture and uses advised against **Product use** : Industrial applications.

Use of the substance/ mixture	: Coating.
Uses advised against	: Product is not intended, labelled or packaged for consumer use.

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

PPG Coatings Belgium BV/SRL Tweemontstraat 104 B-2100 Deurne Belgium Telephone +32-33606311 Fax +32-33606435

- e-mail address of person responsible for this SDS
- : Product.Stewardship.EMEA@ppg.com

## **National contact**

PPG Architectural Coatings UK Ltd, Huddersfield Road, Birstall, West Yorkshire WF17 9XA, Tel: +44 (0) 1924 354000

#### **1.4 Emergency telephone number**

#### **Supplier**

+31 20 4075210

## **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

: Mixture **Product definition** Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS] Acute Tox. 4, H302 Acute Tox. 4, H312

Acute Tox. 4, H332 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Repr. 2, H361d

English (GB)

**United Kingdom (UK)** 

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## **SECTION 2: Hazards identification**

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

See Section 16 for the full text of the H statements declared above.

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

#### 2.2 Label elements

Hazard pictograms



Hazard statements: Harmful if svallowed, in contact with skin or if inhaled. Causes severe skin burns and eye damage. May cause an allergic skin reaction. Suspected of damaging the unborn child.Precautionary statements:Prevention: Vear protective gloves, protective clothing and eye or face protection. ResponseResponse: IF INHALED: Immediately call a POISON CENTER or doctor. IF ON SWALLOWED: Immediately call a policable: Immediately call a policable: Immediately call a policable: Immediately call a policable: Immediately call a polica	Signal word	:	Danger
Prevention       : Wear protective gloves, protective clothing and eye or face protection.         Response       : IF INHALED: Immediately call a POISON CENTER or doctor. IF SWALLOWED: Immediately call a ODISON CENTER or doctor. IF ON SKIN (or hair): Take off immediately call contaminated clothing, Rinse skin with water. Immediately call a POISON CENTER or doctor. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.         Storage       : Not applicable.         Disposal       : Not applicable.         P280, P304 + P310, P301 + P310, P303 + P361 + P353, P310, P305 + P351 + P338         Hazardous ingredients       : benzyl alcohol 	Hazard statements	:	Causes severe skin burns and eye damage. May cause an allergic skin reaction.
Response       : IF INHALED: Immediately call a POISON CENTER or doctor. IF SWALLOWED:         Immediately call a POISON CENTER or doctor. IF ON SKIN (or hair); Take off         immediately call a POISON CENTER or doctor. IF ON SKIN (or hair); Take off         immediately call a POISON CENTER or doctor. IF ON SKIN (or hair); Take off         immediately call a Contaminated clothing. Rinse skin with water. Immediately call a         POISON CENTER or doctor. IF IN EYES: Rinse cautiously with water for several         minutes. Remove contact lenses, if present and easy to do. Continue rinsing.         Storage       : Not applicable.         Disposal       : Not applicable.         P280, P304 + P310, P301 + P310, P303 + P361 + P353, P310, P305 + P351 + P338         Hazardous ingredients       : benzyl alcohol         3-arninopropyldiethylamine       Epoxy Amine Resin         Supplemental label       : Not applicable.         elements       : Not applicable.         annex XVII - Restrictions       : Not applicable.         on the manufacture,       : Not applicable.         placing on the market and       : Not applicable.         containers to be fitted       : Not applicable.         with child-resistant       : Isot applicable.         ratelies       : Special packaging requirements         Containers to be fitted       : Not applicable. </th <th>Precautionary statements</th> <th></th> <th></th>	Precautionary statements		
Immediately call a POISÓN CENTER or doctr. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Immediately call a POISON CENTER or doctor. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.Storage: Not applicable. P280, P304 + P310, P301 + P310, P303 + P361 + P353, P310, P305 + P351 + P338Hazardous ingredients: benzyl alcohol 3-aminopropyldiethylamine Epoxy Amine Resin salicylic acid m-phenylenebis(methylamine)Supplemental label elements: Not applicable. 9 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 	Prevention	1	Wear protective gloves, protective clothing and eye or face protection.
Disposal       : Not applicable. P280, P304 + P310, P301 + P310, P303 + P361 + P353, P310, P305 + P351 + P338         Hazardous ingredients       : benzyl alcohol 3-aminopropyldiethylamine Epoxy Amine Resin salicylic acid m-phenylenebis(methylamine)         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 Tactile warning of danger       : Not applicable.         2.3 Other hazards       Product meets the criteria for PBT or vPvB       : This mixture does not contain any substances that are assessed to be a PBT or a vPvB.         Other hazards which do       : None known.       : None known.	Response	:	Immediately call a POISON CENTER or doctor. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Immediately call a POISON CENTER or doctor. IF IN EYES: Rinse cautiously with water for several
Hazardous ingredients       P280, P304 + P310, P301 + P310, P303 + P361 + P353, P310, P305 + P351 + P338         Hazardous ingredients       : benzyl alcohol 3-aminopropyldiethylamine Epoxy Amine Resin salicylic acid m-phenylenebis(methylamine)         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       : Not applicable.         Containers to be fitted with child-resistant fastenings       : Not applicable.         Tactile warning of danger       : Not applicable.         2.3 Other hazards       : This mixture does not contain any substances that are assessed to be a PBT or a vPvB.         Other hazards which do       : None known.	Storage	1	Not applicable.
Hazardous ingredients       : benzyl alcohol 3-aminopropyldiethylamine Epoxy Amine Resin salicylic acid m-phenylenebis(methylamine)         Supplemental label       : Not applicable.         elements       Annex XVII - Restrictions maneator in 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 Tactile warning of danger       : Not applicable.         2.3 Other hazards       Product meets the criteria for PBT or vPvB       : This mixture does not contain any substances that are assessed to be a PBT or a vPvB.         Other hazards which do       : None known.	Disposal	4	Not applicable.
3-aminopropyldiethylamine         Epoxy Amine Resin         salicylic acid         m-phenylenebis(methylamine)         Supplemental label       : Not applicable.         elements         Annex XVII - Restrictions       : Not applicable.         on the manufacture,         placing on the market and         use of certain dangerous         substances, mixtures and         articles         Special packaging requirements         Containers to be fitted       : Not applicable.         with child-resistant         fastenings         Tactile warning of danger       : Not applicable.         2.3 Other hazards         Product meets the criteria       : This mixture does not contain any substances that are assessed to be a PBT or a vPvB.         for PBT or vPvB       : None known.			P280, P304 + P310, P301 + P310, P303 + P361 + P353, P310, P305 + P351 + P338
elements Annex XVII - Restrictions : Not applicable. on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles Special packaging requirements Containers to be fitted : Not applicable. with child-resistant fastenings Tactile warning of danger : Not applicable. 2.3 Other hazards Product meets the criteria : This mixture does not contain any substances that are assessed to be a PBT or a vPvB. for PBT or vPvB Other hazards which do : None known.	Hazardous ingredients	:	3-aminopropyldiethylamine Epoxy Amine Resin salicylic acid
on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles <u>Special packaging requirements</u> Containers to be fitted : Not applicable. with child-resistant fastenings Tactile warning of danger : Not applicable. 2.3 Other hazards Product meets the criteria : This mixture does not contain any substances that are assessed to be a PBT or a vPvB. for PBT or vPvB Other hazards which do : None known.		1	Not applicable.
Containers to be fitted with child-resistant fastenings Tactile warning of danger: Not applicable.Z.3 Other hazards.Product meets the criteria for PBT or vPvB: This mixture does not contain any substances that are assessed to be a PBT or a vPvB.Other hazards which do: None known.	on the manufacture, placing on the market and use of certain dangerous substances, mixtures and	:	Not applicable.
with child-resistant         fastenings         Tactile warning of danger       : Not applicable.         2.3 Other hazards         Product meets the criteria for PBT or vPvB       : This mixture does not contain any substances that are assessed to be a PBT or a vPvB.         Other hazards which do       : None known.	Special packaging requirem	en	<u>ts</u>
<ul> <li>2.3 Other hazards</li> <li>Product meets the criteria for PBT or vPvB</li> <li>Other hazards which do : None known.</li> </ul>	with child-resistant	:	Not applicable.
Product meets the criteria for PBT or vPvB: This mixture does not contain any substances that are assessed to be a PBT or a vPvB.Other hazards which do: None known.	Tactile warning of danger	:	Not applicable.
for PBT or vPvB Other hazards which do : None known.	2.3 Other hazards		
		:	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
		:	None known.

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

3.2 Mixtures

#### : Mixture

			<b>Classification</b>	
Product/ingredient name	Identifiers	% by weight	Regulation (EC) No. 1272/2008 [CLP]	Туре
benzyl alcohol	REACH #: 01-2119492630-38 EC: 202-859-9 CAS: 100-51-6 Index: 603-057-00-5	≥25 - ≤50	Acute Tox. 4, H302 Acute Tox. 4, H332 Eye Irrit. 2, H319	[1]
3-aminopropyldiethylamine	REACH #: 01-2119965402-39 EC: 203-236-4 CAS: 104-78-9 Index: 612-062-00-1	≥25 - ≤50	Flam. Liq. 3, H226 Acute Tox. 4, H302 Acute Tox. 3, H311 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317	[1]
Epoxy Amine Resin	CAS: SUB128138	≥10 - ≤25	Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317	[1]
salicylic acid	REACH #: 01-2119486984-17 EC: 200-712-3 CAS: 69-72-7 Index: 607-732-00-5	≥5.0 - ≤10	Acute Tox. 4, H302 Eye Dam. 1, H318 Repr. 2, H361d	[1]
m-phenylenebis(methylamine)	REACH #: 01-2119480150-50 EC: 216-032-5 CAS: 1477-55-0	≥5.0 - ≤10	Acute Tox. 4, H302 Acute Tox. 4, H332 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1B, H317 Aquatic Chronic 3, H412 EUH071	[1]
			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 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.

Туре

[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

[6] Additional disclosure due to company policy

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

#### SUB codes represent substances without registered CAS Numbers.

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

#### 4.1 Description of first aid measures

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	<ul> <li>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.</li> </ul>

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SECTION 4: First aid	l measures
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 symptom	ns and effects, both acute and delayed
Potential acute health effect	<u>cts</u>
Eye contact	: Causes serious eye damage.
Inhalation	: Harmful if inhaled.
Skin contact	: Causes severe burns. Harmful in contact with skin. May cause an allergic skin reaction
Ingestion	: Harmful if swallowed.
Over-exposure signs/symp	<u>otoms</u>
Eye contact	: Adverse symptoms may include the following:
	pain watering redness
Inhalation	: Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths skeletal malformations
Skin contact	: Adverse symptoms may include the following: pain or irritation redness blistering may occur reduced foetal weight increase in foetal deaths skeletal malformations
Ingestion	: Adverse symptoms may include the following: stomach pains reduced foetal weight increase in foetal deaths skeletal malformations
4.3 Indication of any immed	iate medical attention and special treatment needed
Notes to physician	<ul> <li>In case of inhalation of decomposition products in a fire, symptoms may be delayed.</li> <li>The exposed person may need to be kept under medical surveillance for 48 hours.</li> </ul>
Specific treatments	: No specific treatment.
<b>SECTION 5: Firefigh</b>	ting measures
5.1 Extinguishing media Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: None known.

## 5.2 Special hazards arising from the substance or mixture

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SECTION 5: Firefighting measures			
Hazards from the substance or mixture	: In a fire or if heated, a pressure increase will occur and the container may burst.		
Hazardous combustion products	: Decomposition products may include the following materials: carbon oxides nitrogen oxides		
5.3 Advice for firefighters			
Special precautions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.		
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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.		

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

6.1 Personal precautions, pro	tective equipment and emergency procedures
For non-emergency personnel	: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Do not breathe vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
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	: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
6.3 Methods and material for	containment and cleaning up
Small spill	: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	: Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. 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. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spill product.
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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### **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

Protective measures	: Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
7.2 Conditions for safe storage, including any incompatibilities	: Store between the following temperatures: 0 to 35°C (32 to 95°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

#### 7.3 Specific end use(s)

See Section 1.2 for Identified uses.

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

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).

#### 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 required.

**DNELs** 

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

Product/ingredient name	Туре	Exposure	Value	Population	Effects
benzyl alcohol	DNEL	Long term Oral	4 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	4 mg/kg bw/day	General population	
	DNEL	Long term Inhalation	5.4 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Dermal	8 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Oral	20 mg/kg bw/day	General population	Systemic
	DNEL	Short term Dermal	20 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	22 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Short term Inhalation	27 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Short term Dermal	40 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Inhalation	110 mg/m <sup>3</sup>	Workers	Systemic
3-aminopropyldiethylamine	DNEL	Long term Inhalation	24.7 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Dermal	3.5 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	1.8 mg/m <sup>3</sup>	General population	Systemic
salicylic acid	DNEL	Long term Oral	1 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	1 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	2.3 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Oral	4 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	4 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Inhalation	5 mg/m³	Workers	Local
	DNEL	Long term Inhalation	5 mg/m <sup>3</sup>	Workers	Systemic
m-phenylenebis	DNEL	Long term Inhalation	0.2 mg/m <sup>3</sup>	Workers	Local
(methylamine)					
	DNEL	Long term Dermal	0.33 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	1.2 mg/m <sup>3</sup>	Workers	Systemic

#### **PNECs**

Product/ingredient name	Туре	Compartment Detail	Value	Method Detail
3-aminopropyldiethylamine	-	Fresh water	0.03 mg/l	Assessment Factors
	-	Marine water	0.003 mg/l	Assessment Factors
	-	Sewage Treatment Plant	10 mg/l	Assessment Factors
	-	Fresh water sediment	0.418 mg/kg dwt	Equilibrium Partitioning
	-	Fresh water sediment	0.042 mg/kg dwt	Equilibrium Partitioning
	-	Soil	0.066 mg/kg dwt	Equilibrium Partitioning

8.2 Exposure controls	
Appropriate engineering controls	: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
Individual protection meas	<u>ures</u>
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	: Chemical splash goggles and face shield. Use eye protection according to EN 166.
Skin protection	
Hand protection	:

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

	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. When prolonged or frequently repeated contact may occur, a glove with a protection class of 6 (breakthrough time greater than 480 minutes according to EN 374) is recommended. When only brief contact is expected, a glove with a protection class of 2 or higher (breakthrough time greater than 30 minutes according to EN 374) is recommended. 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.
Gloves	: butyl rubber
Body protection	<ul> <li>Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.</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.
Respiratory protection	: Use with adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Wear a respirator conforming to EN140. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Mask type: full-face mask half-face mask Filter type: organic vapour filter (Type A) particulate filter P3 Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

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

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

9.1 mormation on basic physic	ai and chemical properties
Appearance	
Physical state	: Liquid.
Colour	: Not available.
Odour	: Amine-like. [Strong]
Odour threshold	: Not available.
рН	insoluble in water.
Melting point/freezing point	<ul> <li>May start to solidify at the following temperature: 14°C (57.2°F) This is based on data for the following ingredient: m-phenylenebis(methylamine). Weighted average: -9.99°C (14°F)</li> </ul>
Initial boiling point and boiling range	: >37.78°C
Flash point	: Closed cup: 80°C
Evaporation rate	: 0.007 (benzyl alcohol) compared with butyl acetate
Flammability (solid, gas)	: liquid

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

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## SECTION 9: Physical and chemical properties

Vapour pressure	1	Ingredient name	Vapour Pressure at 20°C			Vapour pressure at 50°C		
			mm Hg	kPa	Method	mm Hg	kPa	Method
		3-aminopropyldiethylamine	1.5	0.2				
Vapour density	:	Highest known value average: 4.05 (Air =	· ·	ir = 1)(	3-aminopropy	ldiethylar	mine). W	eighted
Relative density	:	1	1					
Solubility(ies)	:	Insoluble in the follow	Insoluble in the following materials: cold water.					
Partition coefficient: n-octanol/ water	:	Not applicable.						
Auto-ignition temperature	:	Ingredient name		°C	°F		Method	
		benzyl alcohol		436	816.8			
Decomposition temperature	:	Stable under recomm	nended s	torage a	ind handling c	onditions	s (see Sec	tion 7).
Viscosity	:	Kinematic (40°C): >2	1 mm²/s					
Explosive properties	;	The product itself is not explosive, but the formation of an explosible mixture of vapour or dust with air is possible.						
		vapour or dust with a	ii is poss					

#### 9.2 Other information

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No additional information.

SECTION 10: Stabilit	y and reactivity
10.1 Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	: The product is stable.
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. Refer to protective measures listed in sections 7 and 8.
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	: Depending on conditions, decomposition products may include the following materials: carbon oxides nitrogen oxides

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## **SECTION 11: Toxicological information**

#### 11.1 Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure	
benzyl alcohol	LC50 Inhalation Dusts and	Rat	>4178 mg/m <sup>3</sup>	4 hours	
	mists		_		
	LD50 Dermal	Rabbit	2000 mg/kg	-	
	LD50 Oral	Rat	1.23 g/kg	-	
3-aminopropyldiethylamine	LD50 Dermal	Rabbit	524 mg/kg	-	
	LD50 Oral	Rat	830 mg/kg	-	
salicylic acid	LD50 Oral	Rat	0.891 g/kg	-	
m-phenylenebis(methylamine)	LC50 Inhalation Gas.	Rat	700 ppm	1 hours	
	LD50 Dermal	Rat - Male,	>3100 mg/kg	-	
		Female			
	LD50 Oral	Rat	930 mg/kg	-	

**Conclusion/Summary** : There are no data available on the mixture itself.

#### Acute toxicity estimates

Route	ATE value
Oral	1104.84 mg/kg
Dermal	1663.49 mg/kg
Inhalation (gases)	50922.26 ppm
Inhalation (dusts and mists)	3.83 mg/l

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
3-aminopropyldiethylamine	Skin - Visible necrosis	Rabbit	-	1 minutes	8 days
m-phenylenebis(methylamine)	Skin - Severe irritant	Rat		4 hours	4 hours

#### **Conclusion/Summary**

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<u> </u>		n
	n I	
_		

: There are no data available on the mixture itself.

Eyes
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: There are no data available on the mixture itself.

- Respiratory
- : There are no data available on the mixture itself.

#### **Sensitisation**

Product/ingre	edient name	Route of exposure	Species	Result
m-phenylenebis(methylam	ine)	skin	Mouse	Sensitising
Conclusion/Summary				
Skin	: There are no da	ata available on the mixtu	re itself.	
Respiratory	: There are no da	ata available on the mixtu	re itself.	
<u>Mutagenicity</u>				
Conclusion/Summary	: There are no da	ata available on the mixtu	re itself.	
Carcinogenicity				
Conclusion/Summary	: There are no da	ata available on the mixtu	re itself.	
Reproductive toxicity				
Conclusion/Summary	: There are no da	ata available on the mixtu	re itself.	
Teratogenicity				
Conclusion/Summary	: There are no da	ata available on the mixtu	re itself.	
Specific target organ toxi	city (single exposur	e)		

ecilic largel organ loxicity (single exposure)

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Not available.	
Specific target organ toxicit Not available.	<u>y (repeated exposure)</u>
Aspiration hazard Not available.	
Information on likely routes of exposure	: Not available.
Potential acute health effect	<u>s</u>
Inhalation	: Harmful if inhaled.
Ingestion	: Harmful if swallowed.
Skin contact	: Causes severe burns. Harmful in contact with skin. May cause an allergic skin reaction
Eye contact	: Causes serious eye damage.
	vsical, chemical and toxicological characteristics
Inhalation	: Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths skeletal malformations
Ingestion	: Adverse symptoms may include the following: stomach pains reduced foetal weight increase in foetal deaths skeletal malformations
Skin contact	: Adverse symptoms may include the following: pain or irritation redness blistering may occur reduced foetal weight increase in foetal deaths skeletal malformations
Eye contact	: Adverse symptoms may include the following: pain watering redness
Delayed and immediate effe	cts as well as chronic effects from short and long-term exposure
Short term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Long term exposure Potential immediate effects	: Not available.
	. Net eveileble
Potential delayed effects Potential chronic health effe	
Not available.	
Conclusion/Summary General	<ul> <li>Not available.</li> <li>Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.</li> </ul>
Carcinogenicity	: No known significant effects or critical hazards.

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Regulation (EU) No. 2015/830				
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## **SECTION 11: Toxicological information**

: Not available.

**Mutagenicity** 

: No known significant effects or critical hazards.

**Reproductive toxicity** 

: Suspected of damaging the unborn child.

Other information

Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of vapour/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death. Exposure to amine vapor has been reported to cause transient corneal edema described as blue haze, halo effect, foggy or blurred vision for several hours. This condition is typically temporary and does not cause permanent visual effects. When the proper eye protection specified in Section 8 is worn, exposure is significantly reduced and the condition has not been observed.

## **SECTION 12: Ecological information**

#### 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
3-aminopropyldiethylamine	Acute EC50 30.2 mg/l	Daphnia	48 hours
	Acute EC50 146.6 mg/l	Fish	96 hours
salicylic acid	Acute EC50 1147.57 mg/l	Daphnia - Daphnia	48 hours
,	Fresh water	longispina - Neonate	
	Chronic NOEC 5.6 mg/l	Daphnia - Daphnia	21 days
	Fresh water	magna - Neonate	,

**Conclusion/Summary** 

: There are no data available on the mixture itself.

#### 12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
3-aminopropyldiethylamine	OECD 301A	90 % - Readily - 28 days	-	-
Conclusion/Summers	Thora are no do	to available on the mixture itself	•	

**Conclusion/Summary** : There are no data available on the mixture itself.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
benzyl alcohol 3-aminopropyldiethylamine	-	-	Readily Readily

#### 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
benzyl alcohol	0.87	-	low
salicylic acid	2.21 to 2.26	-	low
m-phenylenebis(methylamine)	0.18	2.69	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** : No known significant effects or critical hazards.

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## **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	
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	: Yes.
European waste catalog	ue (EWC)

Waste code	Waste designation
08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances
ackaging	
Methods of disposal	<ul> <li>The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered wher recycling is not feasible.</li> </ul>
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.

## 14. Transport information

	ADR/RID	ADN	IMDG	ΙΑΤΑ
14.1 UN number	UN3066	UN3066	UN3066	UN3066
14.2 UN proper shipping name	PAINT	PAINT	PAINT	PAINT
14.3 Transport hazard class(es)	8	8	8	8
14.4 Packing group	II	II	II	II
14.5 Environmental hazards	No.	Yes.	No.	No.
Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.	Not applicable.

#### **Additional information**

ADR/RID	: None identified.
Tunnel code	: (E)
ADN	: The product is only regulated as an environmentally hazardous substance when transported in tank vessels.
IMDG	: None identified.
ΙΑΤΑ	: None identified.

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## 14. Transport information

14.6 Special precautions for	Transport within user's premises: always transport in closed containers that are
user	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 IMO instruments

: Not applicable.

### 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

Ozone depleting substances (1005/2009/EU)

Not listed.

#### **Seveso Directive**

This product is not controlled under the Seveso Directive.

## 15.2 Chemical safety

: No Chemical Safety Assessment has been carried out.

#### 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] DNEL = Derived No Effect Level EUH statement = CLP-specific Hazard statement PNEC = Predicted No Effect Concentration RRN = REACH Registration Number PBT = Persistent, Bioaccumulative and Toxic vPvB = Very Persistent and Very Bioaccumulative ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway IMDG = International Maritime Dangerous Goods IATA = International Air Transport Association Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

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

Classification	Justification
Acute Tox. 4, H302	Calculation method
Acute Tox. 4, H312	Calculation method
Acute Tox. 4, H332	Calculation method
Skin Corr. 1B, H314	Calculation method
Eye Dam. 1, H318	Calculation method
Skin Sens. 1, H317	Calculation method
Repr. 2, H361d	Calculation method

#### Full text of abbreviated H statements

H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H361d	Suspected of damaging the unborn child.
H412	Harmful to aquatic life with long lasting effects.
EUH071	Corrosive to the respiratory tract.

#### Full text of classifications [CLP/GHS]

Acute Tox. 3	ACUTE TOXICITY - Category 3
Acute Tox. 4	ACUTE TOXICITY - Category 4
Aquatic Chronic 3	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3
Eye Dam. 1	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
Flam. Liq. 3	FLAMMABLE LIQUIDS - Category 3
Repr. 2	REPRODUCTIVE TOXICITY - Category 2
Skin Corr. 1B	SKIN CORROSION/IRRITATION - Category 1B
Skin Corr. 1B	SKIN CORROSION/IRRITATION - Category 1B
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1	SKIN SENSITISATION - Category 1
Skin Sens. 1B	SKIN SENSITISATION - Category 1B

#### <u>History</u>

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Prepared by	: EHS
Version	: 13.01

#### **Disclaimer**

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