## SAFETY DATA SHEET

Date of issue/Date of revision : 4 February 2018 Version : 14



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

1.1 Product identifier

Product name : NUKLAD IMP BASE CLEAR

Product code : 00347568

Other means of : Not available.

identification

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

Product use : Industrial applications.

Use of the substance/

mixture

: Coating.

1.3 Details of the supplier of the safety data sheet

PPG Coatings SPRL/BVBA Tweemontstraat 104 B-2100 Deurne Belgium Telephone +32-33606311

Telephone +32-33606311 Fax +32-33606435

e-mail address of person responsible for this SDS

: PMC.Safety@PPG.com

1.4 Emergency telephone number

**Supplier** 

Telephone number

+31 20 4075210

## **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 Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Muta. 2, H341

Aquatic Chronic 2, H411

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.

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

#### 2.2 Label elements

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## **SECTION 2: Hazards identification**

**Hazard pictograms** 







Signal word : Warning

**Hazard statements** : Causes serious eye irritation.

Causes skin irritation.

May cause an allergic skin reaction.

Suspected of causing genetic defects.

Toxic to aquatic life with long lasting effects.

**Precautionary statements** 

**Prevention**: Wear protective gloves. Wear protective clothing. Wear eye or face protection.

Avoid breathing vapour.

**Response**: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses,

: Contains epoxy constituents. May produce an allergic reaction.

if present and easy to do. Continue rinsing.

Storage : Store locked up.

Disposal : Not applicable.

P280, P261, P305 + P351 + P338, P405

Hazardous ingredients : poxy resin (MW ≤ 700)

2,3-epoxypropyl neodecanoate

Supplemental label elements

· ·

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

**Special packaging requirements** 

Containers to be fitted

with child-resistant

fastenings

: Not applicable.

: Not applicable.

Tactile warning of danger : Not applicable.

2.3 Other hazards

Other hazards which do not result in classification

: Causes digestive tract burns.

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

3.2 Mixtures : Mixture

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

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

poxy resin (MW ≤ 700)	REACH #: 01-2119456619-26 EC: 500-033-5 CAS: 25068-38-6	≥50 - ≤75	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411	[1]
2,3-epoxypropyl neodecanoate	REACH #: 01-2119431597-33 EC: 247-979-2 CAS: 26761-45-5	≥10 - ≤25	Skin Sens. 1, H317 Muta. 2, H341 Aquatic Chronic 2, H411	[1]
benzyl alcohol	REACH #: 01-2119492630-38 EC: 202-859-9 CAS: 100-51-6 Index: 603-057-00-5	≥1.0 - ≤5.0	Acute Tox. 4, H302 Acute Tox. 4, H332 Eye Irrit. 2, H319	[1]
Nonylphenol, branched, ethoxylated	EC: 500-209-1 CAS: 68412-54-4	≥1.0 - ≤5.0	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Chronic 2, H411	[1] [5]
4-nonylphenol, branched	EC: 284-325-5 CAS: 84852-15-3 Index: 601-053-00-8	≥0.30 - ≤2.4	Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Repr. 2, H361fd (Fertility and Unborn child) Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10)	[1] [5]
Nonylphenols	EC: 294-048-1 CAS: 91672-41-2	≤0.077	Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Repr. 2, H361fd (Fertility and Unborn child) Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10) EUH071	[1] [5]
			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 or vPvBs or have been assigned a workplace exposure limit and hence require reporting in this section.

#### **Type**

- 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.

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

## 4.1 Description of first aid measures

**Eye contact**: Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids

apart for at least 10 minutes and seek immediate medical advice.

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. 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

## Potential acute health effects

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

Inhalation : No known significant effects or critical hazards.

**Skin contact**: Causes skin irritation. May cause an allergic skin reaction.

**Ingestion**: Corrosive to the digestive tract. Causes burns.

#### **Over-exposure signs/symptoms**

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

pain or irritation watering redness

Inhalation : No specific data.

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

irritation redness

**Ingestion** : Adverse symptoms may include the following:

stomach pains

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

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large

quantities have been ingested or inhaled.

**Specific treatments**: No specific treatment.

## **SECTION 5: Firefighting 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

Hazards from the substance or mixture

: In a fire or if heated, a pressure increase will occur and the container may burst. This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any

waterway, sewer or drain.

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## SECTION 5: Firefighting measures

**Hazardous combustion** products

Decomposition products may include the following materials: carbon oxides

halogenated compounds metal oxide/oxides

### 5.3 Advice for firefighters

fighters

Special precautions for fire- : 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

**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, protective 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. Avoid breathing 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). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.

#### 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 spilt product.

## 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.

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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). 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. Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapour or mist. Avoid release to the environment. Refer to special instructions/safety data sheet. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. 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

: Storage temperature: 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.

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

#### **DNELs**

Product/ingredient name	Туре	Exposure	Value	Population	Effects
poxy resin (MW ≤ 700)	DNEL	Long term Inhalation	12.25 mg/ m³	Workers	Systemic
	DNEL	Short term Inhalation	12.25 mg/ m³	Workers	Systemic
	DNEL	Long term Dermal	8.33 mg/ kg bw/day	Workers	Systemic
	DNEL	Short term Dermal	8.33 mg/ kg bw/day	Workers	Systemic
	DNEL	Long term Dermal	3.571 mg/ kg bw/day	Consumers	Systemic
	DNEL	Short term Dermal	3.571 mg/ kg bw/day	Consumers	Systemic
	DNEL	Long term Oral	0.75 mg/ kg bw/day	Consumers	Systemic
	DNEL	Short term Oral	0.75 mg/ kg bw/day	Consumers	Systemic

## **PNECs**

Product/ingredient name	Type	Compartment Detail	Value	Method Detail
epoxy resin (MW ≤ 700)	- - -	Marine water	0.006 mg/l 0.001 mg/l 10 mg/l	Assessment Factors Assessment Factors Assessment Factors
	- -	Plant Fresh water sediment	0.996 mg/kg dwt 0.1 mg/kg dwt	Equilibrium Partitioning Equilibrium Partitioning

#### 8.2 Exposure controls

Appropriate engineering controls

: If user operations generate dust, fumes, gas, vapour or mist, 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 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

Hand protection

: Chemical splash goggles. Use eye protection according to EN 166.

: 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.

Gloves : butyl rubber

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## SECTION 8: Exposure controls/personal protection

**Body protection** Personal protective equipment for the body should be selected based on the task

being performed and the risks involved and should be approved by a specialist

before handling this product.

Appropriate footwear and any additional skin protection measures should be Other skin protection

selected based on the task being performed and the risks involved and should be

approved by a specialist before handling this product.

Respirator selection must be based on known or anticipated exposure levels, the **Respiratory protection** 

> hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Wear a respirator conforming to EN140. Filter type: organic vapour

(Type A) and particulate filter P3

**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**

## 9.1 Information on basic physical and chemical properties

**Appearance** 

**Physical state** : Liquid. Colour : Clear. Odour : Aromatic. **Odour threshold** : Not available.

pH : insoluble in water.

Melting point/freezing point : May start to solidify at the following temperature: <-7°C (<19.4°F) This is based

on data for the following ingredient: 4-nonylphenol, branched. Weighted average:

-56.52°C (-69.7°F)

**Initial boiling point and boiling** 

range

: >37.78°C

: Closed cup: Not applicable. Flash point

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

Material supports combustion. : Yes. Flammability (solid, gas) : liquid

Upper/lower flammability or

explosive limits

: Greatest known range: Lower: 1.3% Upper: 13% (benzyl alcohol)

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

Weighted average: 0.01 kPa (0.08 mm Hg) (at 20°C)

: Highest known value: 7.59 (Air = 1) (4-nonylphenol, branched). Weighted Vapour density

average: 5 (Air = 1)

Relative density

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

Partition coefficient: n-octanol/ : Not applicable.

water

**Auto-ignition temperature** : Lowest known value: 276°C (528.8°F) (2,3-epoxypropyl neodecanoate).

**Decomposition temperature** : Stable under recommended storage and handling conditions (see Section 7).

: Kinematic (40°C): >0.21 cm<sup>2</sup>/s **Viscosity** 

**Viscosity** : 60 - 100 s (ISO 6mm)

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## SECTION 9: Physical and chemical properties

Explosive propertiesProduct does not present an explosion hazard.Oxidising propertiesProduct does not present an oxidizing hazard.

#### 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** : 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 halogenated compounds metal oxide/oxides

## **SECTION 11: Toxicological information**

## 11.1 Information on toxicological effects

## **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
poxy resin (MW ≤ 700)	LD50 Dermal	Rabbit	>2 g/kg	-
,	LD50 Oral	Rat	>2 g/kg	-
2,3-epoxypropyl	LD50 Dermal	Rat	3800 mg/kg	-
neodecanoate				
	LD50 Oral	Rat	9.6 g/kg	-
benzyl alcohol	LD50 Dermal	Rabbit	2000 mg/kg	-
	LD50 Oral	Rat	1.23 g/kg	-
Nonylphenol, branched, ethoxylated	LD50 Oral	Rat	2.21 g/kg	-
4-nonylphenol, branched	LD50 Dermal	Rabbit	2.14 g/kg	-
	LD50 Oral	Rat	0.58 g/kg	-

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

## **Acute toxicity estimates**

Route	ATE value	
	16662.5 mg/kg 307.1 mg/l	

## **Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
poxy resin (MW ≤ 700)	Skin - Mild irritant	Rabbit	-	-	-
	Eyes - Mild irritant	Rabbit	-	-	-

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## SECTION 11: Toxicological information

Conclusion/Summary

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

**Sensitisation** 

Product/ingredient name	Route of exposure	Species	Result
poxy resin (MW ≤ 700)	skin	Mouse	Sensitising

**Conclusion/Summary** 

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

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

**Mutagenicity** 

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

Carcinogenicity

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

**Reproductive toxicity** 

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

**Teratogenicity** 

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

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

#### **Aspiration hazard**

Not available.

Information on likely routes of exposure

: Not available.

## Potential acute health effects

Inhalation : No known significant effects or critical hazards.Ingestion : Corrosive to the digestive tract. Causes burns.

**Skin contact**: Causes skin irritation. May cause an allergic skin reaction.

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

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation : No specific data.

**Ingestion** : Adverse symptoms may include the following:

stomach pains

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

irritation redness

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

pain or irritation watering redness

Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Short term exposure** 

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## SECTION 11: Toxicological information

**Potential immediate** 

effects

: Not available.

Potential delayed effects: Not available.

Long term exposure

**Potential immediate** 

: Not available.

effects

Potential delayed effects: Not available.

## Potential chronic health effects

Not available.

**Conclusion/Summary** : Not available.

General Once sensitized, a severe allergic reaction may occur when subsequently exposed to

very low levels.

Carcinogenicity : No known significant effects or critical hazards.

Mutagenicity : Suspected of causing genetic defects.

**Teratogenicity** : No known significant effects or critical hazards. **Developmental effects** : No known significant effects or critical hazards. : No known significant effects or critical hazards. **Fertility effects** 

Other information : Not available.

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 eve contact.

Based on the properties of the epoxy constituent(s) and considering toxicological data on similar mixtures, this mixture may be a skin sensitiser and an irritant. It contains low molecular weight epoxy constituents which are irritating to eyes, mucous membrane and skin. Repeated skin contact may lead to irritation and to sensitisation, possibly with crosssensitisation to other epoxies. Skin contact with the mixture and exposure to spray mist and vapour should be avoided.

Contains epoxy resin (MW ≤ 700), 2,3-epoxypropyl neodecanoate. May produce an allergic reaction.

## SECTION 12: Ecological information

### 12.1 Toxicity

Species	Exposure
Daphnia	21 days
Algae	96 hours
Daphnia - Daphnia magna Fish - Oncorhynchus mykiss Fish - Pleuropectes americanus	48 hours 96 hours 96 hours
	Daphnia Algae Daphnia - Daphnia magna

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

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## **SECTION 12: Ecological information**

#### 12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
poxy resin (MW ≤ 700)	OECD 301F	5 % - 28 days	-	-

**Conclusion/Summary**: Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
poxy resin (MW ≤ 700)	-		Not readily
2,3-epoxypropyl neodecanoate	-	-	Not readily
benzyl alcohol	-	-	Readily

## 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
poxy resin (MW ≤ 700)	3	31	low
2,3-epoxypropyl	4.4	-	high
neodecanoate			
benzyl alcohol	1.1	-	low
4-nonylphenol, branched	-	251.19	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**

**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 catalogue (EWC)

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

#### **Packaging**

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## **SECTION 13: Disposal considerations**

**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.

**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	IATA
14.1 UN number	UN3082	UN3082	UN3082	UN3082
14.2 UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
	(epoxy resin (MW ≤ 700), 2,3-epoxypropyl neodecanoate)			
14.3 Transport hazard class(es)	9	9	9	9
14.4 Packing group	III	III	III	III
14.5 Environmental hazards	Yes.	Yes.	Yes.	Yes.
Marine pollutant substances	Not applicable.	Not applicable.	(Epoxy resin (MW ≤ 700), 2,3-epoxypropyl neodecanoate)	Not applicable.

### **Additional information**

ADR/RID

: This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.

**ADN** 

: This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.

**IMDG** 

: This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.

**IATA** 

: This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8.

14.6 Special precautions for user

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

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

: Not applicable.

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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

Ingredient name	Intrinsic property	Status	Reference number	Date of revision
Phenol, 2-nonyl-, branched	Substance of equivalent concern for environment	Candidate	ED/169/2012	10/29/2013
4-nonylphenol, branched	Substance of equivalent concern for environment	Recommended	ED/169/2012	12/19/2012
Nonylphenol, branched, ethoxylated	Substance of equivalent concern for environment	Recommended	ED/69/2013	7/1/2015

Annex XVII - Restrictions

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

articles

Other EU regulations

Ozone depleting substances (1005/2009/EU)

Not listed.

#### **Seveso Directive**

This product is controlled under the Seveso Directive.

#### **Danger criteria**

#### Category

E2: Hazardous to the aquatic environment - Chronic 2

9ii: Toxic for the environment

## 15.2 Chemical safety assessment

: No Chemical Safety Assessment has been carried out.

## **SECTION 16: Other information**

Indicates information that has changed from previously issued version.

: Not applicable.

## **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

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## **SECTION 16: Other information**

IATA = International Air Transport Association

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

Classification	Justification
Skin Irrit. 2, H315	Calculation method
Eye Irrit. 2, H319	Calculation method
Skin Sens. 1, H317	Calculation method
Muta. 2, H341	Calculation method
Aquatic Chronic 2, H411	Calculation method

## Full text of abbreviated H statements

H302	Harmful if swallowed.
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.
H341	Suspected of causing genetic defects.
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn
	child.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.

## Full text of classifications [CLP/GHS]

Acute Tox. 4, H302 Acute Tox. 4, H332 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 Aquatic Chronic 2, H411 EUH071 Eye Dam. 1, H318 Eye Irrit. 2, H319 Muta. 2, H341	ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2 Corrosive to the respiratory tract. SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 GERM CELL MUTAGENICITY (5-1886)
Repr. 2, H361fd	REPRODUCTIVE TOXICITY (Fertility and Unborn child) - Category 2
Skin Corr. 1B, H314 Skin Irrit. 2, H315 Skin Sens. 1, H317	SKIN CORROSION/IRRITATION - Category 1B SKIN CORROSION/IRRITATION - Category 2 SKIN SENSITISATION - Category 1

#### **History**

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## **Disclaimer**

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