# SAFETY DATA SHEET



**ARALDITE® 2052-1 HARDENER** 

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

1.1 Product identifier

Product name : ARALDITE® 2052-1 HARDENER

Product code : 00072298

Product description :

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

Product use : Acrylate adhesive

1.3 Details of the supplier of the safety data sheet

**Supplier** : Huntsman Advanced Materials (Europe)BVBA

Everslaan 45

3078 Everberg / Belgium Tel.: +41 61 299 20 41 Fax: +41 61 299 20 40

e-mail address of person responsible for this SDS

: Global\_Product\_EHS\_AdMat@huntsman.com

1.4 Emergency telephone number

**Supplier** 

Telephone number : EUROPE: +32 35 75 1234

France ORFILA: +33(0)145425959

ASIA: +65 6336-6011 China: +86 20 39377888 Australia: 1800 786 152 New Zealand: 0800 767 437 USA: +1/800/424.9300

#### **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]

Org. Perox. E, H242 Eye Irrit. 2, H319 Skin Sens. 1, H317 Lact., H362

Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Ingredients of unknown

toxicity

: Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 18.6%

Ingredients of unknown ecotoxicity

: Percentage of the mixture consisting of ingredient(s) of unknown hazards to the

aquatic environment: 18.6%

Classification according to Directive 1999/45/EC [DPD]

The product is classified as dangerous according to Directive 1999/45/EC and its amendments.

Classification : O; R7

Xi; R36 R43, R64, R66 N; R50/53

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**SECTION 2: Hazards identification** 

Physical/chemical hazards

: May cause fire.

**Human health hazards** 

: Irritating to eyes. May cause sensitisation by skin contact. May cause harm to

breastfed babies. Repeated exposure may cause skin dryness or cracking.

**Environmental hazards** 

: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic

environment.

See Section 16 for the full text of the R phrases or H statements declared above. See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

**Hazard pictograms** 



Signal word : Warning

**Hazard statements** Heating may cause a fire.

> Causes serious eye irritation. May cause an allergic skin reaction.

May cause harm to breast-fed children.

Very toxic to aquatic life with long lasting effects.

**Precautionary statements** 

General : Not applicable.

: Obtain special instructions before use. Wear protective gloves: >8 hours **Prevention** 

> (breakthrough time): butyl rubber, Ethyl Vinyl Alcohol Laminate (EVAL). Wear eye or face protection. Keep away from heat, sparks, open flames and hot surfaces. - No smoking. Keep away from clothing, incompatible materials and combustible

materials. Keep only in original container. Avoid release to the environment. Avoid

contact during pregnancy or while nursing.

: IF exposed or concerned: Get medical attention. IF IN EYES: Rinse cautiously with Response

water for several minutes.

: Protect from sunlight. Store at temperatures not exceeding 8°C/46°F. Keep cool. **Storage** 

Store away from other materials.

**Disposal** : Not applicable.

**Hazardous ingredients** : Alkanes,-C14-17,-chloro-

dibenzoyl peroxide

Supplemental label

elements

: Not applicable.

Special packaging requirements

Containers to be fitted

with child-resistant

fastenings

: Not applicable.

**Tactile warning of danger** : Not applicable.

2.3 Other hazards

Other hazards which do not result in classification : Temperature control may be required. Hazardous decomposition may occur.

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**SECTION 2: Hazards identification** 

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

Substance/mixture : Mixture

			Class	ification	
Product/ingredient name	Identifiers	%	67/548/EEC	Regulation (EC) No. 1272/2008 [CLP]	Туре
Alkanes,-C14-17,- chloro-	CAS: 85535-85-9 EC: 287-477-0	30-60	R64, R66 N; R50/53	Lact., H362 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	[1]
dibenzoyl peroxide	CAS: 94-36-0 EC: 202-327-6	13-30	E; R3 O; R7 Xi; R36 R43 N; R50	Org. Perox. B, H241 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Acute 1, H400	[1]
oxydipropyl-dibenzoate R36 R51/53	CAS: 27138-31-4 EC: 248-258-5	7-13	Xi; R36 N; R51/53	Eye Irrit. 2, H319 Aquatic Chronic 2, H411	[1]
			See section 16 for the full text of the R- phrases declared above	See Section 16 for the full text of the H statements declared above.	

#### Type

- [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

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

#### 4.1 Description of first aid measures

**Eye contact** 

: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.

**Inhalation** 

: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Skin contact

: Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.

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

Ingestion

: Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

**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**: May cause skin irritation. May cause an allergic skin reaction.

**Ingestion**: Irritating to mouth, throat and stomach.

#### Over-exposure signs/symptoms

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

pain or irritation 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:

irritation redness

reduced foetal weight increase in foetal deaths skeletal malformations

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

reduced foetal weight increase in foetal deaths skeletal malformations

#### 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 : Symptomatic treatment and supportive therapy as indicated. Following severe

exposure the patient should be kept under medical review for at least 48 hours.

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# SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

Suitable extinguishing

: Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.

media

**Unsuitable extinguishing** 

: Do not use water jet.

metal oxide/oxides

#### 5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture : This material increases the risk of fire and may aid combustion. Heating may cause a fire. May re-ignite itself after fire is extinguished. Hazardous decomposition may occur. In a fire or if heated, a pressure increase will occur and the container may burst. Runoff to sewer may create fire or explosion hazard. This material is very 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.

**Hazardous thermal** decomposition products : Decomposition products may include the following materials: carbon dioxide carbon monoxide

#### 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. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

**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. Shut off all ignition sources. No flares, smoking or flames in hazard area. 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 materials for containment and cleaning up

**Small spill** 

: Stop leak if without risk. Move containers from spill area. Avoid contamination with reactive substances. 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. Do not absorb in sawdust or other combustible material. It may lead to a fire risk when it dries out. Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor.

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

#### 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. Avoid contamination with reactive substances. 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 (see section 13). Do not absorb in sawdust or other combustible material. It may lead to a fire risk when it dries out. Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. Note: see section 1 for emergency contact information and section 13 for waste disposal.

# 6.4 Reference to other sections

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

# **SECTION 7: Handling and storage**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 7.1 Precautions for safe handling

#### **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 contact during pregnancy or while nursing. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapour or mist. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Keep away from clothing, incompatible materials and combustible materials. Temperature control may be required. 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

: To avoid the risk of formation of shock-sensitive crystals or loss of stability, it is important to store the product within the recommended temperature range. Temperature control may be required. Store in accordance with local regulations. Store in a segregated and approved area. 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 at temperatures not exceeding °C/°F. Eliminate all ignition sources. Separate from reducing agents and combustible materials. Keep container tightly closed and sealed until ready for use. Prevent product contamination. 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.

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#### Storage hazard class Huntsman Advanced Materials

: Storage class 5, Oxidizing substances

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## SECTION 7: Handling and storage

7.3 Specific end use(s)

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

solutions

# 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.

# procedures

**Recommended monitoring**: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to European Standard EN 689 for methods for the assessment of exposure by inhalation to chemical agents and national guidance documents for methods for the determination of hazardous substances.

#### **Derived effect levels**

No DELs available.

#### **Predicted effect concentrations**

No PECs available.

#### 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. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

#### 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** 

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts.

### Skin protection

**Hand 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.

Material of gloves for long term application (BTT>480min):

: butyl rubber, Ethyl Vinyl Alcohol Laminate (EVAL)

Material of gloves for short term/splash application (10min<BTT<480min):

: nitrile rubber

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# SECTION 8: Exposure controls/personal protection

(BTT = Break Through Time)

Use gloves approved to relevant standards e.g. EN 374 (Europe), F739 (US). Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material and dexterity. Always seek advice from glove suppliers. Additional information can be found for instance at www.gisbau.de.

**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.

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** 

: In case of inadequate ventilation wear respiratory protection. 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.

**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. [Paste.]

Colour : Red.

Odour : Not available.
Odour threshold : Not available.

pH : Not available.

Melting point/freezing point : Not available.

Initial boiling point and boiling : Not available.

range

Flash point : Not available.

Evaporation rate : Not available.

Flammability (solid, gas) : Not available.

Burning time : Not applicable.

Burning rate : Not applicable.

Upper/lower flammability or : Not available.

explosive limits

Vapour pressure

Vapour density

Not available.Not available.Not available.

Relative density Solubility(ies)

Water solubility : Insoluble

20 deg C

Partition coefficient: n-octanol/water (LogK<sub>ow</sub>)

: Not available.

Auto-ignition temperature : Not available.

Decomposition temperature : Not available.

Viscosity : Dynamic: 15 to 45 mPa·s 20 deg C

**Explosive properties** : Not available.

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

Oxidising properties : Not available.

9.2 Other information

SADT : 50°C

**Density** : 1.15 g/cm³ [20°C (68°F)]

# **SECTION 10: Stability and reactivity**

**10.1 Reactivity** : This product, in laboratory testing, neither detonates nor deflagrates and only shows

low or no effect when heated under confinement.

**10.2 Chemical stability** : The product is stable.

10.3 Possibility of hazardous reactions

: Hazardous reactions or instability may occur under certain conditions of storage or

use

Conditions may include the following:

temperature increase high temperature

Reactions may include the following:

hazardous decomposition risk of causing fire

Reacts violently in contact with acids, amines, polymerization accelerators and easily

oxidized materials

**10.4 Conditions to avoid** : Avoid temperatures above +25C.

10.5 Incompatible materials : acids, reducing agents, heavy metals, bases, iron, copper, rust

10.6 Hazardous decomposition products

: Under normal conditions of storage and use, hazardous decomposition products

should not be produced.

Decomposition products may include the following materials: Burning produces

obnoxious and toxic fumes., Carbon oxides

# **SECTION 11: Toxicological information**

#### 11.1 Information on toxicological effects

#### **Acute toxicity**

Product/ingredient name	Endpoint	Species	Result	Exposure
dibenzoyl peroxide	LC50 Inhalation Dusts and mists LD50 Oral	Rat - Male Mouse - Male, Female	>24.3 mg/L >2000 mg/kg	4 hours

#### **Acute toxicity estimates**

Not available.

#### Irritation/Corrosion

Product/ingredient name	Test	Species	Route of exposure	Result
dibenzoyl peroxide	OECD 405 Acute Eye Irritation/Corrosion	Rabbit	Eyes	Irritant
	OECD 404 Acute Dermal Irritation/Corrosion	Rabbit	Skin	Non-irritant.

#### **Conclusion/Summary**

No additional information.

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# **SECTION 11: Toxicological information**

Eyes : No additional information.Respiratory : No additional information.

#### **Sensitiser**

Product/ingredient name	Test	Route of exposure	Species	Result
dibenzoyl peroxide	OECD 429 Skin Sensitisation: Local Lymph Node Assay	skin	Mouse	Sensitising

#### Conclusion/Summary

: No additional information.

#### **Mutagenicity**

Product/ingredient name	Test	Result
dibenzoyl peroxide	OECD 471 Bacterial Reverse Mutation Test	Negative
	OECD 476 In vitro Mammalian Cell Gene Mutation Test	Negative
	OECD 478 Genetic Toxicology: Rodent Dominant Lethal Test	Negative
	OECD 474 Mammalian Erythrocyte Micronucleus Test	Negative

#### **Carcinogenicity**

Product/ingredient name	Test	Species	Exposure	Result	Route of exposure	Target organs
dibenzoyl peroxide	No official guidelines	Mouse	104 weeks	Negative	Dermal	-

#### **Reproductive toxicity**

Product/ingredient name	Test	Species	Result/Result type	Target organs
dibenzoyl peroxide	OECD 422 Combined Repeated Dose Toxicity Study with the Reproduction/Developmental Toxicity Screening Test	Rat	Oral	-

#### **Teratogenicity**

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

**Aspiration hazard** 

Not available.

Information on the likely

: Not available.

routes of exposure

Potential acute health effects

Inhalation : No known significant effects or critical hazards.

**Ingestion**: Irritating to mouth, throat and stomach.

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

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

Symptoms related to the physical, chemical and toxicological characteristics

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# **SECTION 11: Toxicological information**

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

reduced foetal weight increase in foetal deaths skeletal malformations

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

reduced foetal weight increase in foetal deaths skeletal malformations

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

irritation redness

reduced foetal weight increase in foetal deaths skeletal malformations

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

pain or irritation watering redness

#### Delayed and immediate effects and also chronic effects from short and long term exposure

**Short term exposure** 

Potential immediate : Not available.

effects

Potential delayed effects: Not available.

Long term exposure

**Potential immediate** 

: Not available.

effects

Potential delayed effects: Not available.

#### Potential chronic health effects

Product/ingredient name	Test	Result type	Result	Target organs
dibenzoyl peroxide	OECD 422 Combined Repeated Dose Toxicity Study with the Reproduction/Developmental Toxicity Screening Test	NOAEL -	1000 mg/kg	-

**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.

IARC : Alkanes,-C14-17,-chloro- 2B

Mutagenicity : No known significant effects or critical hazards.Teratogenicity : No known significant effects or critical hazards.

**Developmental effects**: May cause harm to breast-fed children.

Fertility effects : No known significant effects or critical hazards.

Other information : Not available.

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# **SECTION 12: Ecological information**

#### 12.1 Toxicity

Product/ingredient name	Test	Endpo	int	Exposure	Species	Result	
dibenzoyl peroxide	OECD 209 Activated Sludge, Respiration Inhibition Test	Acute	EC50	30 minutes Static	Bacteria	35	mg/L
	OECD 202 <i>Daphnia</i> sp. Acute Immobilisation Test	Acute	EC50	48 hours Static	Daphnia	0.11	mg/L
	OECD 201 Alga, Growth Inhibition Test	Acute	EbC50 (biomass)	72 hours Static	Algae	0.0422	mg/L
	OECD 203 Fish, Acute Toxicity Test	Acute	LC50	96 hours Semi- static	Fish	0.0602	mg/L

#### 12.2 Persistence and degradability

Product/ingredient name	Test	Period		Result	
dibenzoyl peroxide	OECD 301D Ready Biodegrad Bottle Test	28 days		68 %	
Product/ingredient name	Aquatic half-life	Photolysis		Biodeg	radability
dibenzoyl peroxide	-	-		Readily	

#### 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
dibenzoyl peroxide	3.2	-	high

#### 12.4 Mobility in soil

Soil/water partition

: Not available.

coefficient (Koc)

**Mobility** : Not available.

#### 12.5 Results of PBT and vPvB assessment

Not applicable.

12.6 Other adverse effects : No known significant effects or critical hazards.

#### 12.7 Other ecological information

# **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. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. 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.

**Hazardous waste** : Yes.

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# **SECTION 13: Disposal considerations**

## European waste catalogue (EWC)

Waste code	Waste designation
07 02 08*	other still bottoms and reaction residues

#### **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.

#### **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. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

# **SECTION 14: Transport information**

	14.1 UN number	14.2 UN proper shipping name
ADR/RID	UN3108	ORGANIC PEROXIDE TYPE E, SOLID DIBENZOYL PEROXIDE
IMDG	UN3108	ORGANIC PEROXIDE TYPE E, SOLID (DIBENZOYL PEROXIDE). Marine pollutant (Alkanes,-C14-17,-chloro-, dibenzoyl peroxide)
IATA	UN3108	ORGANIC PEROXIDE TYPE E, SOLID (DIBENZOYL PEROXIDE)

	14.3 Transport hazard class(es)	14.4 Packing group	14.5 Environmental hazards	14.6 Special precautions for user	Additional information
ADR/RID	5.2	-	Yes.	Not available.	Special provisions 122 274 Tunnel code D
IMDG	5.2	-	Yes.	Not available.	Emergency schedules (EmS) F-J, S-R
IATA	5.2	-	Yes.	Not available.	Passenger and Cargo Aircraft Quantity limitation: 10 kg Packaging instructions: 570 Cargo Aircraft Only Quantity limitation: 25 kg Packaging instructions: 570

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# **SECTION 14: Transport information**

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

: 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

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** 

**Europe inventory** : All components are listed or exempted.

**Black List Chemicals** : Not listed : Listed **Priority List Chemicals** Integrated pollution : Not listed

prevention and control

list (IPPC) - Air

**Integrated pollution** prevention and control list (IPPC) - Water

: Not listed

Product/ingredient name	Carcinogenic effects	Mutagenic effects	Developmental effects	Fertility effects
Alkanes,-C14-17,-chloro-	-	-	Lact., H362	-

#### **National regulations**

: The provision of Safety Data Sheets comes under Regulation 6 of CHIP (CHIP is the References

> recognised abbreviation for the Chemicals Hazard Information and Packaging Regulations). This is an addition to the Health and Safety at Work Act 1974.

**International regulations** 

**Chemical Weapons** 

**Convention List Schedule I** 

**Chemicals** 

Not listed

**Chemical Weapons Convention List Schedule II** 

**Chemicals** 

: Not listed

**Chemical Weapons Convention List Schedule III** 

**Chemicals** 

: Not listed

15.2 Chemical Safety **Assessment** 

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

required.

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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]

DNEL = Derived No Effect Level

EUH statement = CLP-specific Hazard statement PNEC = Predicted No Effect Concentration RRN = REACH Registration Number

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

Classification	Justification
Org. Perox. E, H242	Expert judgment
Eye Irrit. 2, H319	Expert judgment
Skin Sens. 1, H317	Expert judgment
Lact., H362	Expert judgment
Aquatic Acute 1, H400	Expert judgment
Aquatic Chronic 1, H410	Expert judgment

Full text of abbreviated H statements

: H241 Heating may cause a fire or explosion.

H242 Heating may cause a fire.

H317 May cause an allergic skin reaction. H319 Causes serious eye irritation.

H362 May cause harm to breast-fed children.

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]

: Aquatic Acute 1, H400 AQUATIC TOXICITY (ACUTE) - Category 1
Aquatic Chronic 1, H410 AQUATIC TOXICITY (CHRONIC) - Category 1
Aquatic Chronic 2, H411 AQUATIC TOXICITY (CHRONIC) - Category 2

Eye Irrit. 2, H319 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 Lact., H362 TOXIC TO REPRODUCTION - Effects on or via lactation

Org. Perox. B, H241 ORGANIC PEROXIDES - Type B
Org. Perox. E, H242 ORGANIC PEROXIDES - Type E
Skin Sens. 1, H317 SKIN SENSITIZATION - Category 1

Full text of abbreviated R phrases

: R3- Extreme risk of explosion by shock, friction, fire or other sources of ignition.

R7- May cause fire. R36- Irritating to eyes.

R43- May cause sensitisation by skin contact. R64- May cause harm to breastfed babies.

R66- Repeated exposure may cause skin dryness or cracking.

R50- Very toxic to aquatic organisms.

R50/53- Very toxic to aquatic organisms, may cause long-term adverse effects in the

aquatic environment.

R51/53- Toxic to aquatic organisms, may cause long-term adverse effects in the

aquatic environment.

Full text of classifications [DSD/DPD]

: E - Explosive O - Oxidising Xn - Harmful

Xi - Irritant

N - Dangerous for the environment

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

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