## 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

**Registration number** : Not available. **Product code** : 00072298

Product description :

Other means of : Not available.

identification

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

E-mail address to request full REACH registration number upon EU member State

Authority request:

REACH\_Registration\_Nr\_AM@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 +86 532 83889090 India: + 91 22 42 87 5333 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 Aquatic Acute 1, H400

Ingredients of unknown

toxicity

Ingredients of unknown

ecotoxicity

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#### **SECTION 2: Hazards identification**

#### 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 N; R50

Physical/chemical

hazards

: May cause fire.

**Human health hazards**: Irritating to eyes. May cause sensitisation by skin contact.

**Environmental hazards**: Very toxic to aquatic organisms.

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.

Very toxic to aquatic life.

**Precautionary statements** 

General : Not applicable.

Prevention : Wear protective gloves: > 8 hours (breakthrough time): butyl rubber, Ethyl Vinyl

Alcohol Laminate (EVAL). Wear eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep away from clothing, incompatible materials and combustible materials. Keep only in

original container. Avoid release to the environment.

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

lenses, if present and easy to do. Continue rinsing.

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

Store away from other materials.

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

and international regulations.

**Hazardous ingredients** 

Supplemental label

elements

: dibenzoyl peroxide

: Not applicable.

#### Special packaging requirements

Containers to be fitted

with child-resistant

: Not applicable.

fastenings

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 3: Composition/information on ingredients**

3.2 Mixtures : Mixture

			Class		
Product/ingredient name	Identifiers	%	67/548/EEC	Regulation (EC) No. 1272/2008 [CLP]	Туре
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]
			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
- [5] Substance of equivalent concern

#### **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.

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.

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

#### 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 : No specific data.

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

irritation redness

**Ingestion** : No specific data.

#### 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.

## **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media

Suitable extinguishing

media

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

**Unsuitable extinguishing** 

media

: Do not use water jet.

#### 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. 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.

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## SECTION 5: Firefighting measures

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 material for containment and cleaning up

**Small spill** 

: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Avoid contamination with reactive substances. Dilute with water and mop up if water-soluble. Do not absorb in sawdust or other combustible material. It may lead to a fire risk when it dries out. 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. Use spark-proof tools and explosion-proof equipment. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Avoid contamination with reactive substances. Do not absorb in sawdust or other combustible material. It may lead to a fire risk when it dries out. 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.

## 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

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

#### **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. 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 8°C/46°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.

#### Storage hazard class Huntsman Advanced Materials

: Storage class 5, Oxidizing substances

#### 7.3 Specific end use(s)

Recommendations : Not available.

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.

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

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.

#### **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. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

#### **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

(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.

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## SECTION 8: Exposure controls/personal protection

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

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.

: In case of inadequate ventilation wear respiratory protection. Respirator selection Respiratory protection

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. Not available. **Odour threshold** pН : Not available. **Melting point/freezing point** : Not available.

Initial boiling point and

boiling range

Not available.

Flash point : Not available. : Not available. **Evaporation rate** Flammability (solid, gas) : Not available. **Burning time** : Not applicable. Not applicable. **Burning rate** 

Upper/lower flammability or

explosive limits

: Not available.

: Not available. Vapour pressure Not available. Vapour density Not available. Relative density

Solubility(ies)

Water solubility : Insoluble

> 20 deg C

Partition coefficient: n-octanol/: Not available.

water (LogKow)

: Not available. **Auto-ignition temperature Decomposition temperature** : Not available.

Dynamic (20°C): 15 - 45 mPa·s Viscosity

Kinematic: Not available.

Kinematic (40°C): Not available.

**Explosive properties** : Not available. Oxidising properties Not available.

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

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 la

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 -

**Conclusion/Summary** 

: No additional information.

**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

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## **SECTION 11: Toxicological information**

Skin : Dibenzoyl Peroxide Non-irritating to the skin.

Eyes : Dibenzoyl Peroxide Irritating to eyes.

**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**

Skin : No additional information.Respiratory : 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

#### Conclusion/Summary

: No additional information.

#### **Carcinogenicity**

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

## Conclusion/Summary : No

: No additional information.

#### **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	-

**Conclusion/Summary** 

: No additional information.

**Teratogenicity** 

**Conclusion/Summary**: No additional information.

Specific target organ toxicity (single exposure)

Not available.

#### Specific target organ toxicity (repeated exposure)

Not available.

#### **Aspiration hazard**

Not available.

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## **SECTION 11: Toxicological information**

Information on the likely

routes of exposure

: Not available.

#### 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

Inhalation: No specific data.Ingestion: No specific data.

**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 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**: No additional information.

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 : No known significant effects or critical hazards.
 Teratogenicity : No known significant effects or critical hazards.
 Developmental effects : No known significant effects or critical hazards.
 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	oint	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

**Conclusion/Summary**: No additional information.

#### 12.2 Persistence and degradability

Product/ingredient name	Test	Period	Result
Dibenzoyl Peroxide	OECD 301D Ready Biodegradability - Closed Bottle Test	28 days	68 %

**Conclusion/Summary**: No additional information.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Dibenzoyl Peroxide	-	-	Readily

#### 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Dibenzoyl Peroxide	3.2	-	low

12.4 Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

**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

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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 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
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

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## **SECTION 14: Transport information**

	it 14. Hallsport				
ADR/RID	5.2	-	Yes.	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.	The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.  Special provisions 122 274  Tunnel code D
IMDG	5.2	-	Yes.	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.	The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.  Emergency schedules (EmS) F-J S-R
IATA	5.2	-	No.	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.	The environmentally hazardous substance mark may appear if required by other transportation regulations.  Passenger and Cargo Aircraft Quantity limitation: 10 kg Packaging instructions: 570 Cargo Aircraft Only Quantity limitation: 25 kg Packaging instructions: 570

14.7 Transport in bulk according to Annex II of MARPOL 73/78 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)

This product is compliant with the REACH Regulation EC 1907/2006.

Huntsman has pre-registered and is registering all of the substances that it manufactures in or imports into the European Economic Area (EEA) that are subject to Title II of the REACH Regulation.

#### Annex XIV - List of substances subject to authorisation

#### Annex XIV

None of the components are listed.

#### Substances of very high concern

None of the components are listed.

**Annex XVII - Restrictions** 

: Not applicable.

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

mixtures and articles

#### Other EU regulations

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

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

prevention and control

list (IPPC) - Air

: Not listed

Integrated pollution prevention and control list (IPPC) - Water

: Not listed

## National regulations

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

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

**Australia inventory (AICS)** 

**Canada inventory** All components are listed or exempted. China inventory (IECSC) : All components are listed or exempted.

Japan inventory

Korea inventory (KECI) : Not determined.

**New Zealand Inventory of** Chemicals (NZIoC)

Philippines inventory

(PICCS)

**United States inventory** 

(TSCA 8b)

: All components are listed or exempted.

**Chemical Weapons Convention List Schedule I** 

**Chemicals** 

Not listed

**Chemical Weapons Convention List Schedule II** 

**Chemicals** 

: Not listed

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## SECTION 15: Regulatory information

**Chemical Weapons** 

: Not listed

**Convention List Schedule III** 

Chemicals

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

15.2 Chemical Safety required. **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

#### 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	
Aquatic Acute 1, H400	Expert judgment	

Full text of abbreviated H statements

: H241 Heating may cause a fire or explosion.

Heating may cause a fire. H242

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

H400 Very toxic to aquatic life.

Full text of classifications

Aquatic Acute 1, H400 [CLP/GHS]

ACUTE AQUATIC HAZARD - Category 1

Eye Irrit. 2, H319 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2

ORGANIC PEROXIDES - Type B Org. Perox. B, H241 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.

R50- Very toxic to aquatic organisms.

Full text of classifications

[DSD/DPD]

: E - Explosive O - Oxidising

Xi - Irritant

N - Dangerous for the environment

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**Notice to reader** 

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

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THE PRODUCT MAY PRESENT HAZARDS AND SHOULD BE USED WITH CAUTION. WHILE CERTAIN HAZARDS ARE DESCRIBED IN THIS PUBLICATION, NO GUARANTEE IS MADE THAT THESE ARE THE ONLY HAZARDS THAT EXIST.

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