

**ARALDITE® 2047-1 ACTIVATOR**

Version	Revision Date:	SDS Number:	Date of last issue: 26.05.2015
1.1	06.10.2015	400001015063	Date of first issue: 26.05.2015

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier**

Trade name : ARALDITE® 2047-1 ACTIVATOR

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

Use of the Substance/Mixture : Adhesives

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

Company : Huntsman Advanced Materials (Switzerland) GmbH  
Address : Klybeckstrasse 200  
CH-4057 Basel  
Switzerland  
Telephone : +41 61 299 20 41  
Telefax : +41 61 299 20 40

E-mail address of person responsible for the SDS : Global\_Product\_EHS\_AdMat@huntsman.com

**1.4 Emergency telephone**Emergency telephone : 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  
Swiss Toxicologic Information Centre - Emergency Phone 145  
(24 h)  
+41 44 251 5151 (from outside Switzerland)**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture****Classification (REGULATION (EC) No 1272/2008)**

Organic peroxides, Type E	H242: Heating may cause a fire.
Eye irritation, Category 2	H319: Causes serious eye irritation.
Skin sensitization, Category 1	H317: May cause an allergic skin reaction.
Acute aquatic toxicity, Category 1	H400: Very toxic to aquatic life.

**ARALDITE® 2047-1 ACTIVATOR**

Version	Revision Date:	SDS Number:	Date of last issue: 26.05.2015
1.1	06.10.2015	400001015063	Date of first issue: 26.05.2015

**2.2 Label elements****Labeling (REGULATION (EC) No 1272/2008)**

Hazard pictograms :



Signal Word : Warning

Hazard Statements	:	H242	Heating may cause a fire.
		H319	Causes serious eye irritation.
		H317	May cause an allergic skin reaction.
		H400	Very toxic to aquatic life.

Precautionary Statements	:	<b>Prevention:</b>	
		P280	Wear protective gloves/ eye protection/ face protection.
		P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
		P220	Keep/Store away from clothing/ combustible materials.
		P234	Keep only in original container.
		P273	Avoid release to the environment.
		<b>Response:</b>	
		P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
		<b>Storage:</b>	
		P410	Protect from sunlight.
P235	Keep cool.		
P420	Store away from other materials.		
<b>Disposal:</b>			
P501	Dispose of contents and container in accordance with all local, regional, national and international regulations.		

Hazardous ingredients which must be listed on the label:  
dibenzoyl peroxide

**2.3 Other hazards**

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.  
No information available.

**SECTION 3: Composition/information on ingredients****3.2 Mixtures****Hazardous ingredients**

Chemical Name	CAS-No.	Classification	Classification	Concentration
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**ARALDITE® 2047-1 ACTIVATOR**

Version 1.1      Revision Date: 06.10.2015      SDS Number: 400001015063      Date of last issue: 26.05.2015  
 Date of first issue: 26.05.2015

	EC-No. Registration number	(67/548/EEC)	(REGULATION (EC) No 1272/2008)	(%)
dibenzoyl peroxide	94-36-0 202-327-6	E; R 3 E; R 3 O; R 7 O; R 7 Xi; R36 Xi; R36 Xi; R43 R43 N; R50	Org. Perox.B; H241 Eye Irrit.2; H319 Skin Sens.1; H317 Aquatic Acute1; H400	>= 13 - < 30

For explanation of abbreviations see section 16.

**SECTION 4: First aid measures****4.1 Description of first-aid measures**

- General advice : Move out of dangerous area.  
Consult a physician.  
Show this material safety data sheet to the doctor in attendance.
- If inhaled : Move to fresh air in case of accidental inhalation of dust or fumes from overheating or combustion.  
If symptoms persist, call a physician.
- In case of skin contact : Take off contaminated clothing and shoes immediately.  
Wash off with soap and plenty of water.  
If symptoms persist, call a physician.
- In case of eye contact : Immediately flush eye(s) with plenty of water.  
Remove contact lenses.  
Protect unharmed eye.  
Keep eye wide open while rinsing.  
If eye irritation persists, consult a specialist.
- If swallowed : Clean mouth with water and drink afterwards plenty of water.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
Obtain medical attention.

**4.2 Most important symptoms and effects, both acute and delayed**

None known.

**4.3 Indication of any immediate medical attention and special treatment needed****SECTION 5: Firefighting measures****5.1 Extinguishing media**

Suitable extinguishing media : No data is available on the product itself.

**ARALDITE® 2047-1 ACTIVATOR**

Version	Revision Date:	SDS Number:	Date of last issue: 26.05.2015
1.1	06.10.2015	400001015063	Date of first issue: 26.05.2015

Alcohol-resistant foam  
Carbon dioxide (CO<sub>2</sub>)

Unsuitable extinguishing media : High volume water jet

No data is available on the product itself.

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

Specific hazards during fire fighting : Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : No data is available on the product itself.

**5.3 Advice for firefighters**

Special protective equipment for fire-fighters : In the event of fire, wear self-contained breathing apparatus.

Specific extinguishing methods : No data is available on the product itself.

Further information : Use water spray to cool unopened containers.  
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

Personal precautions : Use personal protective equipment.  
Ensure adequate ventilation.  
Evacuate personnel to safe areas.

**6.2 Environmental precautions**

Environmental precautions : Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform respective authorities.

**6.3 Methods and material for containment and cleaning up**

Methods for cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

**6.4 Reference to other sections**

None

**ARALDITE® 2047-1 ACTIVATOR**

Version	Revision Date:	SDS Number:	Date of last issue: 26.05.2015
1.1	06.10.2015	400001015063	Date of first issue: 26.05.2015

**SECTION 7: Handling and storage****7.1 Precautions for safe handling**

- Advice on safe handling : Avoid contact with skin and eyes.  
For personal protection see section 8.  
Persons with a history of skin sensitization problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.  
Smoking, eating and drinking should be prohibited in the application area.  
Container may be opened only under exhaust ventilation hood.  
Open drum carefully as content may be under pressure.  
Dispose of rinse water in accordance with local and national regulations.
- Advice on protection against fire and explosion : Avoid shock and friction. Keep away from sources of ignition - No smoking. Keep away from combustible material.
- Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

**7.2 Conditions for safe storage, including any incompatibilities**

- Requirements for storage areas and containers : No smoking. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Electrical installations / working materials must comply with the technological safety standards.
- Advice on common storage : Acids  
Reducing agents  
Heavy metals  
Bases  
Iron  
Copper  
Rust
- Other data : No decomposition if stored and applied as directed.

**ARALDITE® 2047-1 ACTIVATOR**

Version 1.1      Revision Date: 06.10.2015      SDS Number: 400001015063      Date of last issue: 26.05.2015  
 Date of first issue: 26.05.2015

**7.3 Specific end use(s)****SECTION 8: Exposure controls/personal protection****8.1 Control parameters****Occupational Exposure Limits**

Ingredients	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
dibenzoyl peroxide	94-36-0	TWA (inhalable dust)	5 mg/m <sup>3</sup>	CH SUVA
Further information	Within the group of organic peroxides, the inflammable and irritating effect on the skin and the mucous membranes is very divers. A lot of peroxides still have a severe skin necrosic or corneal necrosic effect with loss of eye sight in strong thinnings and small amounts. Inhaling of fumes provokes various strong irritating effects on the airways. In practice, the danger of a resorptive action is low. Sensitizing effects have been observed., Skin effect nearly absent or very weak (conc. 50%), National Institute for Occupational Safety and Health			
		STEL (inhalable dust)	5 mg/m <sup>3</sup>	CH SUVA
Further information	Within the group of organic peroxides, the inflammable and irritating effect on the skin and the mucous membranes is very divers. A lot of peroxides still have a severe skin necrosic or corneal necrosic effect with loss of eye sight in strong thinnings and small amounts. Inhaling of fumes provokes various strong irritating effects on the airways. In practice, the danger of a resorptive action is low. Sensitizing effects have been observed., Skin effect nearly absent or very weak (conc. 50%), National Institute for Occupational Safety and Health			

**8.2 Exposure controls****Personal protective equipment**

Eye protection : Eye wash bottle with pure water  
 Tightly fitting safety goggles.

Hand protection  
 Material : butyl-rubber

Break through time : > 8 h  
 Solvent-resistant gloves (butyl-rubber)

Nitrile rubber

10 - 480 min

Remarks : Polyvinyl alcohol or nitrile- butyl-rubber gloves  
 The selected protective gloves have to satisfy the specifications of EU Directive 89/689/EEC and the standard EN 374 derived from it.  
 Before removing gloves clean them with soap and water.

Skin and body protection : impervious clothing  
 Choose body protection according to the amount and

**ARALDITE® 2047-1 ACTIVATOR**

Version	Revision Date:	SDS Number:	Date of last issue: 26.05.2015
1.1	06.10.2015	400001015063	Date of first issue: 26.05.2015

concentration of the dangerous substance at the work place.

Respiratory protection : In the case of vapor formation use a respirator with an approved filter.

**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties**

Appearance	: paste
Color	: red
Flash point	: No data is available on the product itself.
Density	: 1,15 g/cm <sup>3</sup> (20 °C)
Solubility(ies)	
Water solubility	: insoluble (20 °C)
Viscosity	
Viscosity, dynamic	: 15 - 45 Pas (20 °C)

**9.2 Other information**

Self-Accelerating decomposition temperature (SADT)	: 50 °C
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**SECTION 10: Stability and reactivity****10.1 Reactivity**

Stable under recommended storage conditions.

**10.2 Chemical stability**

No decomposition if stored and applied as directed.

**10.3 Possibility of hazardous reactions**

Hazardous reactions	: Reacts violently in contact with acids, amines, driers, polymerization accelerators and easily oxidized materials.
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Stable under recommended storage conditions.  
No decomposition if used as directed.

**10.4 Conditions to avoid**

Conditions to avoid	: Do not expose to temperatures above:  Heat, flames and sparks.
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**ARALDITE® 2047-1 ACTIVATOR**

Version	Revision Date:	SDS Number:	Date of last issue: 26.05.2015
1.1	06.10.2015	400001015063	Date of first issue: 26.05.2015

**10.5 Incompatible materials****10.6 Hazardous decomposition products**

Burning produces obnoxious and toxic fumes.  
Carbon oxides

**SECTION 11: Toxicological information****11.1 Information on toxicological effects****Acute toxicity****Ingredients:**

dibenzoyl peroxide:  
Acute oral toxicity : LD50 (Mouse, male and female): > 2.000 mg/kg  
Method: OECD Test Guideline 401

**Ingredients:**

dibenzoyl peroxide:  
Acute inhalation toxicity : LC50 (Rat, male): > 24,3 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403

Acute dermal toxicity : No data available

Acute toxicity (other routes of administration) : No data available

**Skin corrosion/irritation****Ingredients:**

dibenzoyl peroxide:  
Species: Rabbit  
Assessment: No skin irritation  
Method: OECD Test Guideline 404  
Result: No skin irritation

**Serious eye damage/eye irritation****Ingredients:**

dibenzoyl peroxide:  
Species: Rabbit  
Assessment: Irritant  
Method: OECD Test Guideline 405  
Result: Irritating to eyes.

**Respiratory or skin sensitization****Ingredients:**

dibenzoyl peroxide:  
Routes of exposure: Skin



**ARALDITE® 2047-1 ACTIVATOR**

Version	Revision Date:	SDS Number:	Date of last issue: 26.05.2015
1.1	06.10.2015	400001015063	Date of first issue: 26.05.2015

Species: Mouse  
Method: OECD Test Guideline 429  
Result: Causes sensitization.

Assessment: No data available

**Germ cell mutagenicity****Ingredients:**

dibenzoyl peroxide:  
Genotoxicity in vitro : Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 476  
Result: negative

: Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative

**Ingredients:**

dibenzoyl peroxide:  
Genotoxicity in vivo : Cell type: Germ  
Application Route: Intraperitoneal injection  
Exposure time: 8 Weeks  
Method: OECD Test Guideline 478  
Result: negative

Cell type: Somatic  
Application Route: Intraperitoneal injection  
Method: OECD Test Guideline 474  
Result: negative

**Carcinogenicity****Ingredients:**

dibenzoyl peroxide:  
Species: Mouse, (male and female)  
Application Route: Dermal  
Exposure time: 104 weeks  
Result: negative

Carcinogenicity - Assessment : No data available

**Reproductive toxicity****Ingredients:**

dibenzoyl peroxide:  
Effects on fertility : Species: Rat, male and female  
Application Route: Oral  
Method: OECD Test Guideline 422

**ARALDITE® 2047-1 ACTIVATOR**

Version	Revision Date:	SDS Number:	Date of last issue: 26.05.2015
1.1	06.10.2015	400001015063	Date of first issue: 26.05.2015

Effects on fetal development : No data available

Reproductive toxicity - Assessment : No data available

**STOT-single exposure**

No data available

**STOT-repeated exposure**

No data available

**Repeated dose toxicity****Ingredients:**

dibenzoyl peroxide:

Species: Rat, male and female

NOAEL (No observed adverse effect level): 1000 mg/kg

Application Route: Ingestion

Exposure time: 696 h Number of exposures: 7 d

Method: Subacute toxicity

Repeated dose toxicity - Assessment : No data available

**Aspiration toxicity**

No data available

**Experience with human exposure**

General Information: No data available

Inhalation: No data available

Skin contact: No data available

Eye contact: No data available

Ingestion: No data available

**Toxicology, Metabolism, Distribution**

No data available

**ARALDITE® 2047-1 ACTIVATOR**

Version	Revision Date:	SDS Number:	Date of last issue: 26.05.2015
1.1	06.10.2015	400001015063	Date of first issue: 26.05.2015

**Neurological effects**

No data available

**Further information****Product:**

Remarks: No data available

**SECTION 12: Ecological information****12.1 Toxicity****Ingredients:**

dibenzoyl peroxide:

- |   |   |   |
|---|---|---|
| Toxicity to fish                                    | : | LC50 (Oncorhynchus mykiss (rainbow trout)): 0,0602 mg/l<br>Exposure time: 96 h<br>Test Type: semi-static test<br>Test substance: Fresh water<br>Method: OECD Test Guideline 203 |
| Toxicity to daphnia and other aquatic invertebrates | : | EC50 (Daphnia magna (Water flea)): 0,11 mg/l<br>Exposure time: 48 h<br>Test Type: static test<br>Test substance: Fresh water<br>Method: OECD Test Guideline 202                 |
| Toxicity to algae                                   | : | EbC50 (Selenastrum capricornutum (green algae)): 0,0422 mg/l<br>Exposure time: 72 h<br>Test Type: static test<br>Test substance: Fresh water<br>Method: OECD Test Guideline 201 |
| M-Factor (Acute aquatic toxicity)                   | : | 10  |
|   | : | 10  |
| Toxicity to bacteria                                | : | EC50 (activated sludge): 35 mg/l<br>Exposure time: 0,5 h<br>Test Type: static test<br>Test substance: Fresh water<br>Method: OECD Test Guideline 209                            |

**12.2 Persistence and degradability****Ingredients:**

dibenzoyl peroxide:

- |                  |   |  |
|------------------|---|--|
| Biodegradability | : | Inoculum: activated sludge<br>Concentration: 4 mg/l<br>Result: Readily biodegradable.<br>Biodegradation: 68 %<br>Exposure time: 28 d |
|------------------|---|--|

**ARALDITE® 2047-1 ACTIVATOR**

Version	Revision Date:	SDS Number:	Date of last issue: 26.05.2015
1.1	06.10.2015	400001015063	Date of first issue: 26.05.2015

Method: OECD Test Guideline 301D

**12.3 Bioaccumulative potential****Ingredients:**

dibenzoyl peroxide:  
Partition coefficient: n-  
octanol/water : log Pow: 3,2 (22 °C)  
pH: 7,02  
Method: OECD Test Guideline 117

**12.4 Mobility in soil****Ingredients:**

dibenzoyl peroxide:  
Distribution among  
environmental compartments : Koc: 6309,57  
Method: OECD Test Guideline 121

**12.5 Results of PBT and vPvB assessment****Product:**

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher..

**12.6 Other adverse effects****Product:**

Additional ecological  
information : Remarks: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
Very toxic to aquatic organisms.

**SECTION 13: Disposal considerations****13.1 Waste treatment methods**

Product : The product should not be allowed to enter drains, water courses or the soil.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Do not re-use empty containers.  
Do not burn, or use a cutting torch on, the empty drum.

**SECTION 14: Transport information**

IATA  
14.1 UN number : UN 3108

**ARALDITE® 2047-1 ACTIVATOR**

Version	Revision Date:	SDS Number:	Date of last issue: 26.05.2015
1.1	06.10.2015	400001015063	Date of first issue: 26.05.2015

**14.2 UN proper shipping name** : Organic peroxide type E, solid  
(DIBENZOYL PEROXIDE)

**14.3 Transport hazard class(es)** : 5.2  
: Not assigned by regulation

Labels : Organic Peroxides, Keep Away From Heat

Packing instruction (cargo aircraft) : 570

Packing instruction (passenger aircraft) : 570

**IMDG**

**14.1 UN number** : UN 3108

**14.2 UN proper shipping name** : ORGANIC PEROXIDE TYPE E, SOLID  
(DIBENZOYL PEROXIDE)

**14.3 Transport hazard class(es)** : 5.2

**14.4 Packing group** : Not assigned by regulation

Labels : 5.2

EmS Code : F-J, S-R

**14.5 Environmental hazards**

Marine pollutant : yes

**ADR**

**14.1 UN number** : UN 3108

**14.2 UN proper shipping name** : ORGANIC PEROXIDE TYPE E, SOLID  
(DIBENZOYL PEROXIDE)

**14.3 Transport hazard class(es)** : 5.2

**14.4 Packing group** : Not assigned by regulation

Labels : 5.2

**14.5 Environmental hazards**

Marine pollutant : no

**RID**

**14.1 UN number** : UN 3108

**14.2 UN proper shipping name** : ORGANIC PEROXIDE TYPE E, SOLID  
(DIBENZOYL PEROXIDE)

**14.3 Transport hazard class(es)** : 5.2

**14.4 Packing group** : Not assigned by regulation

Labels : 5.2

**14.5 Environmental hazards**

Marine pollutant : yes

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

Not applicable for product as supplied.

**ARALDITE® 2047-1 ACTIVATOR**

Version	Revision Date:	SDS Number:	Date of last issue: 26.05.2015
1.1	06.10.2015	400001015063	Date of first issue: 26.05.2015

**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

The ingredients of this product are reported in the following inventories:

TSCA	: On TSCA Inventory
DSL	: All components of this product are on the Canadian DSL.
AICS	: Not in compliance with the inventory
NZIoC	: Not in compliance with the inventory
ENCS	: Not in compliance with the inventory
ISHL	: Not in compliance with the inventory
KECI	: Not in compliance with the inventory
PICCS	: Not in compliance with the inventory
IECSC	: On the inventory, or in compliance with the inventory

**Inventories**

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)

**15.2 Chemical Safety Assessment****SECTION 16: Other information****Full text of R-Phrases**

R 3	: Extreme risk of explosion by shock, friction, fire or other sources of ignition.
R 7	: May cause fire.
R36	: Irritating to eyes.
R43	: May cause sensitization by skin contact.
R50	: Very toxic to aquatic organisms.

**Full text of H-Statements**

H241	: Heating may cause a fire or explosion.
H317	: May cause an allergic skin reaction.
H319	: Causes serious eye irritation.
H400	: Very toxic to aquatic life.

**ARALDITE® 2047-1 ACTIVATOR**

Version	Revision Date:	SDS Number:	Date of last issue: 26.05.2015
1.1	06.10.2015	400001015063	Date of first issue: 26.05.2015

**Full text of other abbreviations**

Aquatic Acute	: Acute aquatic toxicity
Eye Irrit.	: Eye irritation
Org. Perox.	: Organic peroxides
Skin Sens.	: Skin sensitization

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Hazards, toxicity and behaviour of the products may differ when used with other materials and are dependent upon the manufacturing circumstances or other processes. Such hazards, toxicity and behaviour should be determined by the user and made known to handlers, processors and end users.

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