

Safety Data Sheet

C10 C10 PASTE HARDENER



Safety Data Sheet dated 14/7/2016, version 1

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

1.1. Product identifier

Mixture identification:

Trade code and name: C10 PASTE HARDENER

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

Catalyst for polyester resins and fillers

Only for professional use.

1.3. Details of the supplier of the safety data sheet

Company:

Industria Chimica Reggiana I.C.R. Spa

Via Gasparini, 7 42124 REGGIO EMILIA Italia

Tel. +39 0522/517803 Fax +39 0522/514384

Competent person responsible for the safety data sheet:

sdsre@icrsprint.it

1.4. Emergency telephone number

Tel. +39 0522-517803

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

EC regulation criteria 1272/2008 (CLP)

⚠ Danger, Self-react. C, Heating may cause a fire.

⚠ Warning, Eye Irrit. 2, Causes serious eye irritation.

⚠ Warning, Skin Sens. 1, May cause an allergic skin reaction.

⚠ Warning, Aquatic Chronic 1, Very toxic to aquatic life with long lasting effects.

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

Hazard pictograms:



Danger

Hazard statements:

H242 Heating may cause a fire.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements:

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P280.D Wear protective gloves and clothing and eye protection.

P302+P352 EU4\$P302+P352.1

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P411+P235 Store at temperatures not exceeding ... 30°C. Keep cool

P501 Dispose of contents in accordance with international regulation.

Special Provisions:

None

Contains

Dibenzoyl peroxide

Special provisions according to Annex XVII of REACH and subsequent amendments:

None

2.3. Other hazards

vPvB Substances: None - PBT Substances: None

Other Hazards:

No other hazards

SECTION 3: Composition/information on ingredients

3.1. Substances

N.A.

3.2. Mixtures

Hazardous components within the meaning of the CLP regulation and related classification:



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Qty	Name	Ident. Number	Classification
>= 50% - < 60%	Dibenzoyl peroxide	Index number: 617-008-00-0 CAS: 94-36-0 EC: 202-327-6 REACH No.: 01-2119511472-50	 1> 2.15/B Org. Perox. B H241  4.1/C1 Aquatic Chronic 1 H410 M=10.  3.3/2 Eye Irrit. 2 H319  4.1/A1 Aquatic Acute 1 H400 M=10.  3.4.2/1 Skin Sens. 1 H317

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.
Remove contaminated clothing immediately and dispose off safely.
After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult a medic immediately.
Protect uninjured eye.

In case of Ingestion:

SEEK A MEDICAL EXAMINATION IMMEDIATELY and present the safety-data sheet.

In case of Inhalation:

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

See section 11 for known symptoms and effects.

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

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Treatment:

None

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Water.

Carbon dioxide (CO2).

CO2 or Dry chemical fire extinguisher.

Extinguishing media which must not be used for safety reasons:

Do not use water jets. Water may not be effective fire fighting measure, however it can be used to cool closed containers close to flames as to avoid bursting and exploding.

None in particular.

5.2. Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases.

Burning produces heavy smoke. Carbon oxides.

5.3. Advice for firefighters

Use suitable breathing apparatus.

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.

Remove all sources of ignition.

Remove persons to safety.

See protective measures under point 7 and 8.

6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

Retain contaminated washing water and dispose it.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

Suitable material for taking up: absorbing material, organic, sand

6.3. Methods and material for containment and 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.

6.4. Reference to other sections



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See also section 8 and 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.
Don't use empty container before they have been cleaned.
Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.
Contaminated clothing should be changed before entering eating areas.
Do not eat or drink while working.
See also section 8 for recommended protective equipment.

7.2. Conditions for safe storage, including any incompatibilities

Keep away from unguarded flame, sparks, and heat sources. Avoid direct exposure to sunlight.
Keep away from food, drink and feed.
Incompatible materials:
None in particular.
Instructions as regards storage premises:
Cool and adequately ventilated.

7.3. Specific end use(s)

See Point 1.2.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Dibenzoyl peroxide - CAS: 94-36-0
ACGIH - LTE(8h): 5 mg/m³ - Notes: A4 - URT and skin irr

DNEL Exposure Limit Values

Dibenzoyl peroxide - CAS: 94-36-0
Consumer: 1.65 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects
Worker Professional: 6.6 mg/kg - Consumer: 3.3 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects
Worker Professional: 11.75 mg/m³ - Consumer: 2.9 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

PNEC Exposure Limit Values

Dibenzoyl peroxide - CAS: 94-36-0
Target: Freshwater sediments - Value: 0.338 mg/l
Target: Marine water sediments - Value: 0.0338 mg/l
Target: Soil (agricultural) - Value: 0.0758 mg/kg
Target: Fresh Water - Value: 0.602 mg/l
Target: Marine water - Value: 0.0602 mg/l

8.2. Exposure controls

Eye protection:

Use close fitting safety goggles and/or visor conforming to BS 2092 GRADE 1).

Protection for skin:

Wear safety clothing that ensure full skin protection in accordance to EN 14605 Type 4 in case of spills or spray (e.g. Tyrek).
Please note: safety clothing must be changed immediately if it comes in contact with product.

Protection for hands:

Use protective gloves that provides comprehensive protection, EN374 Class 3 (B-F-I). Permeation time > 30 minutes; 0.4 mm thickness.

Respiratory protection:

Not needed for normal use.

Thermal Hazards:

None

Environmental exposure controls:

Emissions from ventilation systems or from work processes must be check as to ensure compliance to environmental protection legislation. In some cases the addition of vapour scrubbers, filters or other system modification may be necessary in order to reduce emissions to acceptable levels.

None

Appropriate engineering controls:

None

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties



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Properties	Value	Method:	Notes
Appearance and colour:	White/Red thixotropic paste	--	--
Odour:	Typical	--	--
Odour threshold:	N.D.	--	--
pH:	N.A.		
Melting point / freezing point:	N.D.	--	--
Initial boiling point and boiling range:	N.D.	--	--
Flash point:	195°C	--	--
Evaporation rate:	N.D.	--	--
Solid/gas flammability:	Può provocare un incendio.	--	--
Upper/lower flammability or explosive limits:	N.D.	--	--
Vapour pressure:	1 hPa	--	--
Vapour density:	N.D.	--	--
Relative density:	1.1 g/cm ³	--	--
Solubility in water:	Insoluble	--	--
Solubility in oil:	N.D.	--	--
Partition coefficient (n-octanol/ water):		--	--
Auto-ignition temperature:	Prodotto non autoinfiammabile.	--	--
Decomposition temperature:	SADT 50°C	--	--
Viscosity:	N.D.	--	--
Explosive properties:	SADT 50°C	--	--
Oxidizing properties:	N.D.	--	--

9.2. Other information

Properties	Value	Method:	Notes
Miscibility:	N.D.	--	--
Fat Solubility:	N.A.	--	--
Conductivity:	N.A.	--	--
Substance Groups relevant properties	N.A.	--	--



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SECTION 10: Stability and reactivity

- 10.1. Reactivity
 - Stable under normal conditions
- 10.2. Chemical stability
 - Stable under recommended use and storage conditions (see point 7).
- 10.3. Possibility of hazardous reactions
 - It may generate flammable gases on contact with nitrides.
 - It may generate toxic gases on contact with aliphatic and aromatic amines, carbamates, dithiocarbamates, mercaptans and other organic sulphides, nitriles, inorganic sulphides, and combustible and inflammable materials.
 - It may catch fire on contact with alcohols and glycols, azo, diazo and hydrazines compounds, carbamates, dithiocarbamates, mercaptans and other organic sulphides, nitrides, and combustible and inflammable materials.
- 10.4. Conditions to avoid
 - Stable under normal conditions.
- 10.5. Incompatible materials
 - Avoid contact with combustible materials. The product could catch fire.
- 10.6. Hazardous decomposition products
 - None.

SECTION 11: Toxicological information

- 11.1. Information on toxicological effects
 - Toxicological information of the mixture:
 - N.A.
 - Toxicological information of the main substances found in the mixture:
 - Dibenzoyl peroxide - CAS: 94-36-0
 - a) acute toxicity:
 - Test: LD50 - Route: Oral - Species: Rat = 5000 mg/kg
 - Test: LC50 - Route: Inhalation - Species: Rat = 24.3 mg/l
 - d) respiratory or skin sensitisation:
 - Test: Skin Sensitization - Route: Skin Positive

If not differently specified, the information required in Regulation (EU)2015/830 listed below must be considered as N.A.:

- a) acute toxicity;
- b) skin corrosion/irritation;
- c) serious eye damage/irritation;
- d) respiratory or skin sensitisation;
- e) germ cell mutagenicity;
- f) carcinogenicity;
- g) reproductive toxicity;
- h) STOT-single exposure;
- i) STOT-repeated exposure;
- j) aspiration hazard.

SECTION 12: Ecological information

- 12.1. Toxicity
 - Adopt good working practices, so that the product is not released into the environment.
 - Dibenzoyl peroxide - CAS: 94-36-0
 - a) Aquatic acute toxicity:
 - Endpoint: EC50 - Species: Daphnia = 0.110 mg/l - Duration h: 48 - Notes: OECD TG 202
 - Endpoint: EC50 - Species: Algae = 0.0711 mg/l - Duration h: 72 - Notes: OECD TG 201
 - Endpoint: LC50 - Species: Daphnia = 0.0602 mg/l - Duration h: 96 - Notes: OECD TG 203
- 12.2. Persistence and degradability
 - Non-readily biodegradable
- 12.3. Bioaccumulative potential
 - Not bioaccumulative
- 12.4. Mobility in soil
 - Do not mix with waste water, rain or surface water. Floats on water, evaporates from liquid and solid surfaces but a significant amount may penetrate and pollute water table.
- 12.5. Results of PBT and vPvB assessment
 - vPvB Substances: None - PBT Substances: None
- 12.6. Other adverse effects
 - None

SECTION 13: Disposal considerations

- 13.1. Waste treatment methods
 - The empty containers must be considered special waste materials to take to dump of type 2B. If previously cleansed, they can



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be admitted in first class dumps.
Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.

SECTION 14: Transport information



14.1. UN number	
ADR-UN Number:	3108
IATA-UN Number:	3108
IMDG-UN Number:	3108
14.2. UN proper shipping name	
ADR-Shipping Name:	ORGANIC PEROXIDE TYPE E, SOLID
ADR-Shipping Name:	Benzoyl peroxide
IATA-Shipping Name:	ORGANIC PEROXIDE TYPE E, SOLID
IMDG-Shipping Name:	ORGANIC PEROXIDE TYPE E, SOLID
IMDG-Technical name:	Benzoyl peroxide
14.3. Transport hazard class(es)	
ADR-Class:	5.2
ADR-Label:	5
ADR - Hazard identification number:	-
IATA-Class:	5.2
IMDG-Class:	5.2
IMDG-Class:	5.2
14.4. Packing group	
ADR-Packing Group:	-
IATA-Packing group:	-
IMDG-Packing group:	-
14.5. Environmental hazards	
ADR-Environmental Pollutant:	Yes
IMDG-Marine pollutant:	Marine Pollutant
14.6. Special precautions for user	
ADR-Subsidiary risks:	-
ADR-S.P.:	122 274
ADR-Tunnel Restriction Code:	2 (D)
IATA-Passenger Aircraft:	570
IATA-Subsidiary risks:	-
IATA-Cargo Aircraft:	570
IATA-S.P.:	A20 A802
IATA-ERG:	5L
IMDG-EmS:	F-J , S-R
IMDG-Subsidiary risks:	-
IMDG-Storage category:	Category D
IMDG-Storage notes:	Protected from sources of heat. "Separated from" acids and alkalis.
14.7. Transport in bulk according to Annex II of Marpol and the IBC Code	
N.A.	

SECTION 15: Regulatory information

- 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
- Dir. 98/24/EC (Risks related to chemical agents at work)
 - Dir. 2000/39/EC (Occupational exposure limit values)
 - Regulation (EC) n. 1907/2006 (REACH)
 - Regulation (EC) n. 1272/2008 (CLP)
 - Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013
 - Regulation (EU) 2015/830
 - Regulation (EU) n. 286/2011 (ATP 2 CLP)
 - Regulation (EU) n. 618/2012 (ATP 3 CLP)
 - Regulation (EU) n. 487/2013 (ATP 4 CLP)
 - Regulation (EU) n. 944/2013 (ATP 5 CLP)
 - Regulation (EU) n. 605/2014 (ATP 6 CLP)

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and



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subsequent modifications:

Restrictions related to the product:

Restriction 3

Restrictions related to the substances contained:

No restriction.

Volatile Organic compounds - VOCs = 0.00 g/Kg= 0.00 g/l

Volatile CMR substances = 0.00 %

Halogenated VOCs which are assigned the risk phrase R40 = 0.00 %

Organic Carbon - C = 0.00

Where applicable, refer to the following regulatory provisions :

Directive 2003/105/CE ('Activities linked to risks of serious accidents') and subsequent amendments.

Regulation (EC) nr 648/2004 (detergents).

1999/13/EC (VOC directive)

Provisions related to directives 82/501/EC(Seveso), 96/82/EC(Seveso II):

N.A.

15.2. Chemical safety assessment

No

SECTION 16: Other information

Full text of phrases referred to in Section 3:

H241 Heating may cause a fire or explosion.

H410 Very toxic to aquatic life with long lasting effects.

H319 Causes serious eye irritation.

H400 Very toxic to aquatic life.

H317 May cause an allergic skin reaction.

This safety data sheet has been completely updated in compliance to Regulation 2015/830.

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

CCNL - Appendix 1

Insert further consulted bibliography

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

CAS: Chemical Abstracts Service (division of the American Chemical Society).

CLP: Classification, Labeling, Packaging.

DNEL: Derived No Effect Level.

EINECS: European Inventory of Existing Commercial Chemical Substances.

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

IMDG: International Maritime Code for Dangerous Goods.

INCI: International Nomenclature of Cosmetic Ingredients.

KSt: Explosion coefficient.

LC50: Lethal concentration, for 50 percent of test population.

LD50: Lethal dose, for 50 percent of test population.

LTE: Long-term exposure.

N.A.: Not available

N.D.: Not determined.

PNEC: Predicted No Effect Concentration.

RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.

STE: Short-term exposure.

STEL: Short Term Exposure limit.

STOT: Specific Target Organ Toxicity.

TLV: Threshold Limiting Value.

TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).

