



HARDENER

Revisione n. 2
Revised on 10/01/2006
Printed on 25/09/2014
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1. Identification of the substance / preparation and the Company

1.1 IDENTIFICATION OF THE SUBSTANCE OR PREPARATION

Product name **HARDENER**
Chemical name or synonym ORGANIC PEROXIDE IN PHLEGMATICS

1.2 USE OF THE SUBSTANCE / PREPARATION CATALYST/HARDENER FOR POLYESTER GLUES/ADHESIVES

1.3 COMPANY IDENTIFICATION

Name FEDERCHEMICALS S.R.L.
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(+1) 703-527-3887 INTERNATIONAL PHONE NUMBER
ANTI-POISON CENTER, MILAN, ITALY +39-02-6610.1029

2. Composition / Information on ingredients

Substances contained which are harmful to the health under directive 67/548/EEC and subsequent amendments, or for which there are recognized exposure limits:

Name	Concentration C	Classification
DIBENZOYL PEROXIDE	46,6 <= C <50,6	Xi R36 Xi R43
Cas No 94-36-0		
CE No 202-327-6		
Index No 617-008-00-0		

The complete text of -R- phrases is specified in section 16.

3. Hazards Identification

3.1 SUBSTANCE/PREPARATION CLASSIFICATION

This preparation is dangerous under 67/548/EEC and 1999/45/EC regulations and subsequent amendments. Therefore, this preparation requires a safety data sheet according to the 91/155/EC regulation and subsequent amendments. Further information on health and/or environmental hazards can be found in sections 11 and 12 of this sheet.

DANGER SYMBOLS: O - Xi PHRASES R: 7 - 43

3.2 DANGER IDENTIFICATION

MAY CAUSE FIRE. MAY CAUSE SENSITIZATION BY SKIN CONTACT.

4. First aid measures

EYES: Irrigate copiously with clean, fresh water for at least 15 minutes. Seek medical advice.

SKIN: Wash immediately with plenty of water. Remove contaminated clothing. If irritation persists, seek medical attention. Wash contaminated clothing before using them again.

INHALATION: Remove to open air. If breathing is irregular, seek medical advice.

INGESTION: Obtain immediate medical attention. Induce vomiting only if indicated by the doctor. Never give anything by mouth to an unconscious person.

5. Fire-fighting measures

In the event of a fire in the vicinity, immediately cool the containers in order to avoid the risk of explosions and the development of gas hazardous to health and safety. Wear the fire equipment all the time.

6. Accidental release measures

Collect the solid product with nonsparking mechanical tools. Avoid the formation of dust spraying the product with water, if this is not contraindicated (see section 10). These precautions are valid for dusts potentially flammable or explosive with air.

7. Handling and storage

Store only in the original container. Follow the instructions of the supplier. Store in a ventilated and dry place, far away from sources of ignition. Ensure that there is an adequate earthing system for the equipment and personnel.

8. Exposure control / personal protection.

In order to minimize exposure as far as possible, it is strongly recommended to use adequate individual protective measures, such as: masks suitable for the product, goggles, gloves and overall. Do not eat, drink or smoke while handling it. Accurately wash the hands with soap and water before meals and at the end of the work shift.

9. Physical and chemical properties

COLOUR	white
ODOUR	typical
PHYSICAL STATE	paste
SOLUBILITY	N.A.
VISCOSITY	N.A.
VAPOUR DENSITY	N.A.
EVAPORATION SPEED	N.A.
COMBURENT PROPERTIES	N.A.
PARTITION COEFFICIENT: N-OCTANOL/WATER	N.A.
pH	N.A.
BOILING POINT	N.A.
FLASH POINT	not appl.
EXPLOSIVE PROPERTIES	N.A.
VAPOUR PRESSURE	N.A.
SPECIFIC GRAVITY	kg/l. 1,150
SOLID CONTENT:	62,00 %

10. Stability and reactivity

Above a certain temperature, called SADT (Self Acceleration Decomposition Temperature), the product may generate explosive peroxides, thus releasing substances which might be harmful to health.

11. Toxicological information

Upon contact with skin, this product causes sensitization (dermatitis). Dermatitis derives from skin irritation on the areas which repeatedly come into contact with the sensitizing agent. Cutaneous lesions may include: erythemas, edemas, papules, vesicles, pustules, scurves, ulcerations and exudative phenomena, whose intensity varies according to illness seriousness and affected areas. Erythemas, edemas and exudative phenomena prevail during the acute phase. Scurfy skin, dryness, ulcerations and skin thickening prevail during the chronic phase.

12. Ecological information

Use this product according to good working practices. Avoid litter. Inform the competent authorities, should the product reach waterways or sewers or contaminate soil or vegetation.

13. Disposal consideration

Dispose in authorized plant according the law and local regulations in force. Consult the supplier for possible special inactivation treatment and/or regeneration. Do not incinerate together with waste.

14. Transport information

These goods must be transported by vehicles authorized to the carriage of dangerous goods according to the provisions set out in the current edition of the Code of International Carriage of Dangerous Goods by Road (ADR) and in all the applicable national regulations. These goods must be packed in their original packagings or in packagings made of materials resistant to their content and not reacting dangerously with it. People loading and unloading dangerous goods must be trained on all the risks deriving from these substances and on all actions that must be taken in case of emergency situations.

Road and Railway transport:

ADR Class:	5.2
UN no.	UN 3108
Packing Group	II
LABEL:	5.2

Nr. Kemler: 539
Proper Shipping name Organic peroxide type E, solid

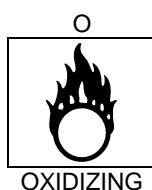
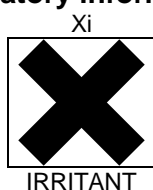
Sea transport:

IMO Class: 5.2
UN no. UN 3108
Packing Group: II
EmS: F-J, S-R
Proper Shipping name Organic peroxide type E, solid

Air transport:

IATA Class: 5.2
UN no. UN 3108
Packing Group: II
Label: 5.2
Cargo: Packaging instructions: 513 Maximum quantity: 25 kg.
Pass.: Packaging instructions: 510 Maximum quantity: 10 kg.

15. Regulatory information



R 7 MAY CAUSE FIRE.
R 43 MAY CAUSE SENSITIZATION BY SKIN CONTACT.
S 2 KEEP OUT OF THE REACH OF CHILDREN.
S 24 AVOID CONTACT WITH SKIN.
S 37 WEAR SUITABLE GLOVES.
S 46 IF SWALLOWED, SEEK MEDICAL ADVICE IMMEDIATELY AND SHOW THIS CONTAINER OR LABEL.

Contains: Dibenzoyl peroxide

Danger labelling under regulations 67/548/EEC and 1999/45/EC and following amendments and adjustments.

Workers exposed to this chemical agent must undergo health checks according to regulation 98/24/EC.

16. Other information

Text of -R- phrases quoted in section 2 of the sheet.

R36 IRRITATING TO EYES.
R43 MAY CAUSE SENSITIZATION BY SKIN CONTACT.

GENERAL BIBLIOGRAPHY

1. Regulation 1999/45/CE and following amendments;
2. Regulation 67/548/CEE and following amendments and adjustments (technical adjustment XXIX);
3. Regulation 91/155/CEE and following amendments;
4. The Merck Index. - 10th Edition;
5. Handling Chemical Safety;
6. Niosh - Registry of Toxic Effects of Chemical Substances;
7. INRS - Fiche Toxicologique (toxicological sheet);
8. Patty - Industrial Hygiene and Toxicology;
9. N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition;

Note for user

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product .

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.