

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

1.1. Product identifier

| | |
|--|--------------------|
| Trade name or designation of the mixture | Red Cr Hrd 1 oz/24 |
| Registration number | - |
| Synonyms | None. |
| Product Code | 27020 |
| Issue date | 04-20-2015 |
| Version number | 01 |

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

| | |
|----------------------|---|
| Identified uses | Cream Hardener, Polymer Reaction Catalyst |
| Uses advised against | None known. |

1.3. Details of the supplier of the safety data sheet

Supplier

| | | |
|----------------|--|----------------|
| Company name | Quest Automotive Products | |
| Address | 600 Nova Drive SE Massillon, OH 44646 US | |
| Division | Massillon | |
| Telephone | General Assistance | (330) 830-6000 |
| e-mail | rpandrus@quest-ap.com | |
| Contact person | Not available. | |

| | | |
|---------------------------------|----------|----------------|
| 1.4. Emergency telephone number | CHEMTREC | (800) 424-9300 |
|---------------------------------|----------|----------------|

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

Classification according to Directive 67/548/EEC or 1999/45/EC as amended

Classification O;R8, R5, Xi;R36, R43

The full text for all R-phrases is displayed in section 16.

Classification according to Regulation (EC) No 1272/2008 as amended

Physical hazards

| | | |
|-------------------|--------|----------------------------------|
| Organic peroxides | Type E | H242 - Heating may cause a fire. |
|-------------------|--------|----------------------------------|

Health hazards

| | | |
|--------------------|------------|---|
| Skin sensitization | Category 1 | H317 - May cause an allergic skin reaction. |
|--------------------|------------|---|

Environmental hazards

| | | |
|--|------------|--|
| Hazardous to the aquatic environment, long-term aquatic hazard | Category 4 | H413 - May cause long lasting harmful effects to aquatic life. |
|--|------------|--|

Hazard summary

| | |
|------------------------------|--|
| Physical hazards | Heating may cause an explosion. Contact with combustible material may cause fire. |
| Health hazards | Irritating to eyes. May cause sensitization by skin contact. Occupational exposure to the substance or mixture may cause adverse health effects. |
| Environmental hazards | Not classified for hazards to the environment. |
| Specific hazards | None known. |
| Main symptoms | May cause an allergic skin reaction. Dermatitis. Rash. |

2.2. Label elements

Label according to Regulation (EC) No. 1272/2008 as amended

| | |
|------------------|------------------|
| Contains: | Benzoyl peroxide |
|------------------|------------------|

Hazard pictograms



Signal word

Warning

Hazard statements

H242 Heating may cause a fire.
H317 May cause an allergic skin reaction.
H413 May cause long lasting harmful effects to aquatic life.

Precautionary statements

Prevention

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P220 Keep/Store away from clothing and other combustible materials.
P234 Keep only in original container.
P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
P272 Contaminated work clothing should not be allowed out of the workplace.
P273 Avoid release to the environment.
P280 Wear protective gloves/eye protection/face protection.

Response

P302 + P352 IF ON SKIN: Wash with plenty of water.
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.
P362 + P364 Take off contaminated clothing and wash it before reuse.

Storage

P410 Protect from sunlight.
P411 + P235 Store at temperatures not exceeding 25°C / 77°F. Keep cool.
P420 Store away from other materials.

Disposal

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Supplemental label information 30% of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment.

2.3. Other hazards None known.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

General information

| Chemical name | % | CAS-No. / EC No. | REACH Registration No. | Index No. | Notes |
|------------------------|-------------------------------------|----------------------|------------------------|--------------|-------|
| Benzoyl peroxide | 50 - < 60 | 94-36-0 202-327-6 | - | 617-008-00-0 | |
| Classification: | DSD: E;R3, O;R7, Xi;R36, R43 | | | | |
| | CLP: - | | | | |

Other components below reportable levels 50 - < 60

List of abbreviations and symbols that may be used above

CLP: Regulation No. 1272/2008.
DSD: Directive 67/548/EEC.
M: M-factor
vPvB: very persistent and very bioaccumulative substance.
PBT: persistent, bioaccumulative and toxic substance.
#: This substance has been assigned Community workplace exposure limit(s).

Composition comments The full text for all R- and H-phrases is displayed in section 16.

SECTION 4: First aid measures

General information

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.

4.1. Description of first aid measures

Inhalation Call a physician if symptoms develop or persist.
Skin contact Remove contaminated clothing immediately and wash skin with soap and water. In case of eczema or other skin disorders: Seek medical attention and take along these instructions.
Eye contact Rinse with water. Get medical attention if irritation develops and persists.
Ingestion Rinse mouth. Get medical attention if symptoms occur.

| | |
|--|--|
| 4.2. Most important symptoms and effects, both acute and delayed | May cause an allergic skin reaction. Dermatitis. Rash. |
| 4.3. Indication of any immediate medical attention and special treatment needed | Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed. |

SECTION 5: Firefighting measures

| | |
|---|---|
| General fire hazards | Heating may cause a fire. |
| 5.1. Extinguishing media | |
| Suitable extinguishing media | Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2). |
| Unsuitable extinguishing media | Do not use water jet as an extinguisher, as this will spread the fire. |
| 5.2. Special hazards arising from the substance or mixture | During fire, gases hazardous to health may be formed. |
| 5.3. Advice for firefighters | |
| Special protective equipment for firefighters | Self-contained breathing apparatus and full protective clothing must be worn in case of fire. |
| Special fire fighting procedures | In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk. Withdraw immediately in case of rising sound from venting safety device or any discoloration of tanks due to fire. |
| Specific methods | Use standard firefighting procedures and consider the hazards of other involved materials. |

SECTION 6: Accidental release measures

| | |
|---|---|
| 6.1. Personal precautions, protective equipment and emergency procedures | |
| For non-emergency personnel | Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS. |
| For emergency responders | Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the SDS. |
| 6.2. Environmental precautions | Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. Inform appropriate managerial or supervisory personnel of all environmental releases. |
| 6.3. Methods and material for containment and cleaning up | Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water. Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Never return spills to original containers for re-use. |
| 6.4. Reference to other sections | For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS. |

SECTION 7: Handling and storage

| | |
|--|---|
| 7.1. Precautions for safe handling | When using do not smoke. Keep away from clothing and other combustible materials. Keep away from heat, sparks and open flame. Avoid contact with eyes, skin, and clothing. Provide adequate ventilation. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices. |
| 7.2. Conditions for safe storage, including any incompatibilities | Keep away from heat, sparks and open flame. Store in a cool, dry place out of direct sunlight. Keep only in the original container. Store away from other materials. |
| 7.3. Specific end use(s) | Not available. |

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits**Austria. MAK List, OEL Ordinance (GwV), BGBl. II, no. 184/2001**

| Components | Type | Value | Form |
|---|---------|----------|----------------------|
| Benzoyl peroxide (CAS 94-36-0) | Ceiling | 10 mg/m3 | Inhalable fraction. |
| | MAK | 5 mg/m3 | Inhalable fraction. |
| Calcium Sulfate Dihydrate (CAS 7778-18-9) | MAK | 5 mg/m3 | Respirable fraction. |
| | STEL | 10 mg/m3 | Respirable fraction. |

Belgium. Exposure Limit Values.

| Components | Type | Value | Form |
|---|------|----------|------|
| Benzoyl peroxide (CAS 94-36-0) | TWA | 5 mg/m3 | |
| Calcium Sulfate Dihydrate (CAS 7778-18-9) | TWA | 10 mg/m3 | |
| Zinc Stearate (CAS 557-05-1) | TWA | 10 mg/m3 | |

Bulgaria. OELs. Regulation No 13 on protection of workers against risks of exposure to chemical agents at work

| Components | Type | Value | Form |
|---|------|----------|---------------------|
| Calcium Sulfate Dihydrate (CAS 7778-18-9) | TWA | 6 mg/m3 | Inhalable fraction. |
| | | 10 mg/m3 | |

Croatia. Dangerous Substance Exposure Limit Values in the Workplace (ELVs), Annexes 1 and 2, Narodne Novine, 13/09

| Components | Type | Value | Form |
|--------------------------------|------|----------|------------------|
| Benzoyl peroxide (CAS 94-36-0) | MAC | 5 mg/m3 | |
| Zinc Stearate (CAS 557-05-1) | STEL | 4 mg/m3 | Respirable dust. |
| | | 10 mg/m3 | Total dust. |
| | | 20 mg/m3 | Total dust. |
| | | 20 mg/m3 | Respirable dust. |

Czech Republic. OELs. Government Decree 361

| Components | Type | Value | Form |
|---|---------|----------|-------|
| Benzoyl peroxide (CAS 94-36-0) | Ceiling | 10 mg/m3 | |
| | TWA | 5 mg/m3 | |
| Calcium Sulfate Dihydrate (CAS 7778-18-9) | TWA | 5 mg/m3 | Dust. |

Denmark. Exposure Limit Values

| Components | Type | Value | Form |
|--------------------------------|------|---------|------|
| Benzoyl peroxide (CAS 94-36-0) | TLV | 5 mg/m3 | |

Estonia. OELs. Occupational Exposure Limits of Hazardous Substances. (Annex of Regulation No. 293 of 18 September 2001)

| Components | Type | Value | Form |
|--------------------------------|------|---------|------|
| Benzoyl peroxide (CAS 94-36-0) | TWA | 5 mg/m3 | |

Finland. Workplace Exposure Limits

| Components | Type | Value | Form |
|---|------|----------|-------|
| Benzoyl peroxide (CAS 94-36-0) | STEL | 10 mg/m3 | |
| | TWA | 5 mg/m3 | |
| Calcium Sulfate Dihydrate (CAS 7778-18-9) | TWA | 10 mg/m3 | Dust. |
| Zinc Stearate (CAS 557-05-1) | TWA | 10 mg/m3 | |

France. Threshold Limit Values (VLEP) for Occupational Exposure to Chemicals in France, INRS ED 984

| Components | Type | Value | Form |
|---|------|----------|------|
| Benzoyl peroxide (CAS 94-36-0) | VME | 5 mg/m3 | |
| Calcium Sulfate Dihydrate (CAS 7778-18-9) | VME | 10 mg/m3 | |

France. Threshold Limit Values (VLEP) for Occupational Exposure to Chemicals in France, INRS ED 984

| Components | Type | Value |
|------------------------------|------|----------|
| Zinc Stearate (CAS 557-05-1) | VME | 10 mg/m3 |

Germany. DFG MAK List (advisory OELs). Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area (DFG)

| Components | Type | Value | Form |
|---|------|-----------|----------------------|
| Benzoyl peroxide (CAS 94-36-0) | TWA | 5 mg/m3 | Inhalable fraction. |
| Calcium Sulfate Dihydrate (CAS 7778-18-9) | TWA | 4 mg/m3 | Inhalable fraction. |
| Zinc Stearate (CAS 557-05-1) | TWA | 1,5 mg/m3 | Respirable fraction. |
| | | 2 mg/m3 | Inhalable fraction. |
| | | 0,1 mg/m3 | Respirable fraction. |

Germany. TRGS 900, Limit Values in the Ambient Air at the Workplace

| Components | Type | Value | Form |
|---|------|---------|----------------------|
| Benzoyl peroxide (CAS 94-36-0) | AGW | 5 mg/m3 | Inhalable fraction. |
| Calcium Sulfate Dihydrate (CAS 7778-18-9) | AGW | 6 mg/m3 | Respirable fraction. |

Greece. OELs (Decree No. 90/1999, as amended)

| Components | Type | Value | Form |
|---|------|----------|-------------|
| Benzoyl peroxide (CAS 94-36-0) | TWA | 5 mg/m3 | |
| Calcium Sulfate Dihydrate (CAS 7778-18-9) | TWA | 5 mg/m3 | Respirable. |
| | | 10 mg/m3 | Inhalable |
| | | 10 mg/m3 | |

Hungary. OELs. Joint Decree on Chemical Safety of Workplaces

| Components | Type | Value | Form |
|---|------|---------|-------------|
| Benzoyl peroxide (CAS 94-36-0) | STEL | 5 mg/m3 | |
| | TWA | 5 mg/m3 | |
| Calcium Sulfate Dihydrate (CAS 7778-18-9) | TWA | 6 mg/m3 | Respirable. |

Iceland. OELs. Regulation 154/1999 on occupational exposure limits

| Components | Type | Value |
|--------------------------------|------|---------|
| Benzoyl peroxide (CAS 94-36-0) | TWA | 5 mg/m3 |

Ireland. Occupational Exposure Limits

| Components | Type | Value | Form |
|---|------|----------|-----------------------|
| Benzoyl peroxide (CAS 94-36-0) | TWA | 5 mg/m3 | |
| Calcium Sulfate Dihydrate (CAS 7778-18-9) | TWA | 10 mg/m3 | |
| Zinc Stearate (CAS 557-05-1) | STEL | 20 mg/m3 | Total inhalable dust. |
| | TWA | 4 mg/m3 | Respirable dust. |
| | | 10 mg/m3 | Total inhalable dust. |

Italy. Occupational Exposure Limits

| Components | Type | Value | Form |
|---|------|----------|---------------------|
| Benzoyl peroxide (CAS 94-36-0) | TWA | 5 mg/m3 | |
| Calcium Sulfate Dihydrate (CAS 7778-18-9) | TWA | 10 mg/m3 | Inhalable fraction. |
| Zinc Stearate (CAS 557-05-1) | TWA | 10 mg/m3 | |

Latvia. OELs. Occupational exposure limit values of chemical substances in work environment

| Components | Type | Value |
|---|------|---------|
| Calcium Sulfate Dihydrate (CAS 7778-18-9) | TWA | 4 mg/m3 |

Lithuania. OELs. Limit Values for Chemical Substances, General Requirements

| Components | Type | Value |
|------------------------------|------|---------|
| Zinc Stearate (CAS 557-05-1) | TWA | 5 mg/m3 |

Norway. Administrative Norms for Contaminants in the Workplace

| Components | Type | Value |
|--------------------------------|------|---------|
| Benzoyl peroxide (CAS 94-36-0) | TLV | 5 mg/m3 |

Poland. MACs. Minister of Labour and Social Policy Regarding Maximum Allowable Concentrations and Intensities in Working Environment

| Components | Type | Value | Form |
|---|------|----------|-------------|
| Benzoyl peroxide (CAS 94-36-0) | STEL | 10 mg/m3 | |
| | TWA | 5 mg/m3 | |
| Calcium Sulfate Dihydrate (CAS 7778-18-9) | TWA | 10 mg/m3 | Total dust. |

Portugal. VLEs. Norm on occupational exposure to chemical agents (NP 1796)

| Components | Type | Value | Form |
|---|------|----------|---------------------|
| Benzoyl peroxide (CAS 94-36-0) | TWA | 5 mg/m3 | |
| Calcium Sulfate Dihydrate (CAS 7778-18-9) | TWA | 10 mg/m3 | Inhalable fraction. |
| Zinc Stearate (CAS 557-05-1) | TWA | 10 mg/m3 | |

Romania. OELs. Protection of workers from exposure to chemical agents at the workplace

| Components | Type | Value | Form |
|---|------|----------|---------------------|
| Calcium Sulfate Dihydrate (CAS 7778-18-9) | TWA | 10 mg/m3 | Inhalable fraction. |
| Zinc Stearate (CAS 557-05-1) | TWA | 10 mg/m3 | Inhalable fraction. |

Slovakia. OELs. Regulation No. 300/2007 concerning protection of health in work with chemical agents

| Components | Type | Value | Form |
|---|------|-----------|----------------------|
| Benzoyl peroxide (CAS 94-36-0) | TWA | 5 mg/m3 | |
| Calcium Sulfate Dihydrate (CAS 7778-18-9) | TWA | 4 mg/m3 | Inhalable fraction. |
| | | 1,5 mg/m3 | Respirable fraction. |
| Zinc Stearate (CAS 557-05-1) | TWA | 2 mg/m3 | Inhalable fraction. |
| | | 0,1 mg/m3 | Respirable fraction. |

Slovenia. OELs. Regulations concerning protection of workers against risks due to exposure to chemicals while working (Official Gazette of the Republic of Slovenia)

| Components | Type | Value | Form |
|---|------|---------|----------------------|
| Benzoyl peroxide (CAS 94-36-0) | TWA | 5 mg/m3 | Inhalable fraction. |
| Calcium Sulfate Dihydrate (CAS 7778-18-9) | TWA | 6 mg/m3 | Respirable fraction. |

Spain. Occupational Exposure Limits

| Components | Type | Value |
|---|------|----------|
| Benzoyl peroxide (CAS 94-36-0) | TWA | 5 mg/m3 |
| Calcium Sulfate Dihydrate (CAS 7778-18-9) | TWA | 10 mg/m3 |
| Zinc Stearate (CAS 557-05-1) | TWA | 10 mg/m3 |

Sweden. Occupational Exposure Limit Values

| Components | Type | Value | Form |
|------------------------------|------|---------|-------------|
| Zinc Stearate (CAS 557-05-1) | TWA | 5 mg/m3 | Total dust. |

Switzerland. SUVA Grenzwerte am Arbeitsplatz

| Components | Type | Value | Form |
|---|------|--|--------------------------------------|
| Benzoyl peroxide (CAS 94-36-0) | STEL | 5 mg/m ³ | Inhalable dust. |
| | TWA | 5 mg/m ³ | Inhalable dust. |
| Calcium Sulfate Dihydrate (CAS 7778-18-9) | TWA | 3 mg/m ³ | Respirable dust. |
| Zinc Stearate (CAS 557-05-1) | STEL | 4 mg/m ³ | Inhalable dust. |
| | TWA | 0,4 mg/m ³ 3 mg/m ³ | Respirable dust. Respirable dust. |

UK. EH40 Workplace Exposure Limits (WELs)

| Components | Type | Value | Form |
|--------------------------------|------|---|-------------------------------------|
| Benzoyl peroxide (CAS 94-36-0) | TWA | 5 mg/m ³ | |
| Zinc Stearate (CAS 557-05-1) | STEL | 20 mg/m ³ | Inhalable dust. |
| | TWA | 4 mg/m ³ 10 mg/m ³ | Respirable dust. Inhalable dust. |

| | |
|--|---|
| Biological limit values | No biological exposure limits noted for the ingredient(s). |
| Recommended monitoring procedures | Follow standard monitoring procedures. |
| Derived no-effect level (DNEL) | Not available. |
| Predicted no effect concentrations (PNECs) | Not available. |
| Exposure guidelines | Occupational Exposure Limits are not relevant to the current physical form of the product. |
| 8.2. Exposure controls | |
| Appropriate engineering controls | Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. |
| Individual protection measures, such as personal protective equipment | |
| General information | Use personal protective equipment as required. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment. |
| Eye/face protection | Wear eye/face protection. If contact is likely, safety glasses with side shields are recommended. |
| Skin protection | |
| - Hand protection | Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier. |
| - Other | Wear appropriate chemical resistant clothing. |
| Respiratory protection | In case of insufficient ventilation, wear suitable respiratory equipment. |
| Thermal hazards | Wear appropriate thermal protective clothing, when necessary. |
| Hygiene measures | When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace. |
| Environmental exposure controls | Inform appropriate managerial or supervisory personnel of all environmental releases. |

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

| | |
|-------------------------------------|---------------------|
| Physical state | Solid. |
| Form | Solid. Paste Paste. |
| Color | Red |
| Odor | Not available. |
| Odor threshold | Not available. |
| pH | Not available. |
| Melting point/freezing point | Not available. |

| | |
|---|----------------------|
| Initial boiling point and boiling range | Not available. |
| Flash point | Not available. |
| Evaporation rate | Not available. |
| Flammability (solid, gas) | Not available. |
| Upper/lower flammability or explosive limits | |
| Flammability limit - lower (%) | Not available. |
| Flammability limit - upper (%) | Not available. |
| Vapor pressure | 0,0002 hPa estimated |
| Vapor density | Not available. |
| Relative density | Not available. |
| Solubility(ies) | |
| Solubility (water) | Not available. |
| Solubility (other) | Not available. |
| Partition coefficient (n-octanol/water) | Not available. |
| Auto-ignition temperature | Not available. |
| Decomposition temperature | 122 °F (50 °C) SADT |
| Viscosity | Not available. |
| Explosive properties | Not available. |
| Oxidizing properties | Not available. |
| 9.2. Other information | |
| Density | 9,98 lbs/gal |
| Percent volatile | 20 % estimated |
| Specific gravity | 1,2 |

SECTION 10: Stability and reactivity

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|---|--|
| 10.1. Reactivity | The product is stable and non-reactive under normal conditions of use, storage and transport. |
| 10.2. Chemical stability | Material is stable under normal conditions. |
| 10.3. Possibility of hazardous reactions | No dangerous reaction known under conditions of normal use. |
| 10.4. Conditions to avoid | Avoid heat, sparks, open flames and other ignition sources. Sunlight. Avoid temperatures exceeding the decomposition temperature. Contact with incompatible materials. |
| 10.5. Incompatible materials | Acids. Strong oxidizing agents. Combustible material. Amines. Alcohols. |
| 10.6. Hazardous decomposition products | No hazardous decomposition products are known. |

SECTION 11: Toxicological information

| | |
|---|---|
| General information | Occupational exposure to the substance or mixture may cause adverse effects. |
| Information on likely routes of exposure | |
| Inhalation | No adverse effects due to inhalation are expected. |
| Skin contact | May cause an allergic skin reaction. |
| Eye contact | Direct contact with eyes may cause temporary irritation. |
| Ingestion | May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of occupational exposure. |
| Symptoms | May cause an allergic skin reaction. Dermatitis. Rash. |
| 11.1. Information on toxicological effects | |
| Acute toxicity | May cause an allergic skin reaction. |

| Components | Species | Test Results |
|--------------------------------|---------|--------------|
| Benzoyl peroxide (CAS 94-36-0) | | |
| Acute | | |
| Oral | | |
| LD50 | Rat | 7710 mg/kg |

* Estimates for product may be based on additional component data not shown.

| | |
|--|---|
| Skin corrosion/irritation | Due to partial or complete lack of data the classification is not possible. |
| Serious eye damage/eye irritation | Direct contact with eyes may cause temporary irritation. |
| Respiratory sensitization | Due to partial or complete lack of data the classification is not possible. |
| Skin sensitization | May cause an allergic skin reaction. |
| Germ cell mutagenicity | Due to partial or complete lack of data the classification is not possible. |
| Carcinogenicity | Due to partial or complete lack of data the classification is not possible. |

IARC Monographs. Overall Evaluation of Carcinogenicity

Benzoyl peroxide (CAS 94-36-0) 3 Not classifiable as to carcinogenicity to humans.

| | |
|---|---|
| Reproductive toxicity | Due to partial or complete lack of data the classification is not possible. |
| Specific target organ toxicity - single exposure | Due to partial or complete lack of data the classification is not possible. |
| Specific target organ toxicity - repeated exposure | Due to partial or complete lack of data the classification is not possible. |
| Aspiration hazard | Due to partial or complete lack of data the classification is not possible. |
| Mixture versus substance information | No information available. |
| Other information | Not available. |

SECTION 12: Ecological information

| | |
|--|---|
| 12.1. Toxicity | May cause long lasting harmful effects to aquatic life. |
| 12.2. Persistence and degradability | No data is available on the degradability of this product. |
| 12.3. Bioaccumulative potential | |
| Partition coefficient n-octanol/water (log Kow) | |
| Benzoyl peroxide | 3,46 |
| Bioconcentration factor (BCF) | Not available. |
| 12.4. Mobility in soil | No data available. |
| 12.5. Results of PBT and vPvB assessment | Not available. |
| 12.6. Other adverse effects | No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component. |

SECTION 13: Disposal considerations

| | |
|--------------------------------------|--|
| 13.1. Waste treatment methods | |
| Residual waste | Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions). |
| Contaminated packaging | Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal. |
| EU waste code | The Waste code should be assigned in discussion between the user, the producer and the waste disposal company. |
| Disposal methods/information | Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations. |
| Special precautions | Dispose in accordance with all applicable regulations. |

SECTION 14: Transport information

ADR

| | |
|------------------------------------|---|
| 14.1. UN number | UN3108 |
| 14.2. UN proper shipping name | ORGANIC PEROXIDE TYPE E, SOLID (<52% Dibenzoyl Peroxide as a paste) |
| 14.3. Transport hazard class(es) | |
| Class | 5.2 |
| Subsidiary risk | - |
| Label(s) | 5.2 |
| Hazard No. (ADR) | Not available. |
| Tunnel restriction code | Not available. |
| 14.4. Packing group | Not applicable. |
| 14.5. Environmental hazards | No. |
| 14.6. Special precautions for user | Read safety instructions, SDS and emergency procedures before handling. |

RID

| | |
|------------------------------------|---|
| 14.1. UN number | UN3108 |
| 14.2. UN proper shipping name | ORGANIC PEROXIDE TYPE E, SOLID (<52% Dibenzoyl Peroxide as a paste) |
| 14.3. Transport hazard class(es) | |
| Class | 5.2 |
| Subsidiary risk | - |
| Label(s) | 5.2 |
| 14.4. Packing group | Not applicable. |
| 14.5. Environmental hazards | No. |
| 14.6. Special precautions for user | Read safety instructions, SDS and emergency procedures before handling. |

ADN

| | |
|------------------------------------|---|
| 14.1. UN number | UN3108 |
| 14.2. UN proper shipping name | ORGANIC PEROXIDE TYPE E, SOLID (<52% Dibenzoyl Peroxide as a paste) |
| 14.3. Transport hazard class(es) | |
| Class | 5.2 |
| Subsidiary risk | - |
| Label(s) | 5.2 |
| 14.4. Packing group | Not applicable. |
| 14.5. Environmental hazards | No. |
| 14.6. Special precautions for user | Read safety instructions, SDS and emergency procedures before handling. |

IATA

| | |
|------------------------------------|---|
| 14.1. UN number | UN3108 |
| 14.2. UN proper shipping name | Organic peroxide type E, solid (<52% Dibenzoyl Peroxide as a paste) |
| 14.3. Transport hazard class(es) | |
| Class | 5.2 |
| Subsidiary risk | - |
| 14.4. Packing group | Not applicable. |
| 14.5. Environmental hazards | No. |
| ERG Code | 5L |
| 14.6. Special precautions for user | Read safety instructions, SDS and emergency procedures before handling. |
| Other information | |
| Passenger and cargo aircraft | Allowed. |
| Cargo aircraft only | Allowed. |

IMDG

| | |
|----------------------------------|---|
| 14.1. UN number | UN3108 |
| 14.2. UN proper shipping name | ORGANIC PEROXIDE TYPE E, SOLID (<52% Dibenzoyl Peroxide as a paste) |
| 14.3. Transport hazard class(es) | |
| Class | 5.2 |
| Subsidiary risk | - |
| 14.4. Packing group | Not applicable. |

14.5. Environmental hazards

Marine pollutant Yes

EmS F-J,S-R

14.6. Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

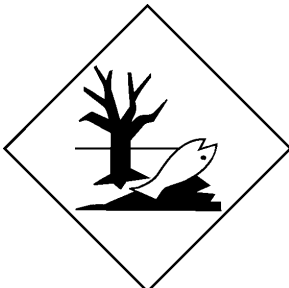
ADN; ADR; IMDG; RID



IATA



Marine pollutant



General information

IMDG Regulated Marine Pollutant.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU regulations

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I, as amended

Not listed.

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex II, as amended

Not listed.

Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 1 as amended

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 2 as amended

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 3 as amended

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex V as amended

Not listed.

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended

Not listed.

Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA

Not listed.

Authorizations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended

Not listed.

Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended

Not listed.

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended

Not listed.

Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breastfeeding, as amended

Not listed.

Other EU regulations

Directive 2012/18/EU on major accident hazards involving dangerous substances

Benzoyl peroxide (CAS 94-36-0)

Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work, as amended

Benzoyl peroxide (CAS 94-36-0)

Directive 94/33/EC on the protection of young people at work, as amended

Benzoyl peroxide (CAS 94-36-0)

Other regulations

The product is classified and labelled in accordance with EC directives or respective national laws. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006.

National regulations

Young people under 18 years old are not allowed to work with this product according to EU Directive 94/33/EC on the protection of young people at work. Follow national regulation for work with chemical agents.

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

List of abbreviations

Not available.

References

Not available.

Information on evaluation method leading to the classification of mixture

The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.

Full text of any statements or R-phrases and H-statements under Sections 2 to 15

R3 Extreme risk of explosion by shock, friction, fire or other sources of ignition.
R36 Irritating to eyes.
R43 May cause sensitization by skin contact.
R5 Heating may cause an explosion.
R7 May cause fire.
R8 Contact with combustible material may cause fire.

Revision information

None.

Training information

Follow training instructions when handling this material.

Disclaimer

The information in the sheet was written based on the best knowledge and experience currently available. THE INFORMATION CONTAINED HEREIN IS BASED ON DATA BELIEVED TO BE RELIABLE AND THE MANUFACTURER DISCLAIMS ANY LIABILITY INCURRED FROM THE USE OR RELIANCE UPON THE SAME. THE INFORMATION GIVEN IS DESIGNED ONLY AS A GUIDANCE FOR SAFE HANDLING, USE, PROCESSING, STORAGE, TRANSPORTATION, DISPOSAL AND RELEASE AND IS NOT TO BE CONSIDERED A WARRANTY OR QUALITY SPECIFICATION. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. This safety information is not a license to use this material as claimed by any patents of third parties. The user alone must finally determine whether a contemplated use of this material will infringe any such patents, and for obtaining any required licenses.