# RAPTOR 1K PRO PRIMER GRAY AEROSOL

Safety Data Sheet RPPGAL-US-SDS

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Issue date: 09/02/2020 Version: 1.0

## SECTION 1: Identification

### 1.1. Identification

Product form : Mixture

Trade name : RAPTOR 1K PRO PRIMER GRAY AEROSOL

Product code : UP4844

UP Number UP4844

### 1.2. Recommended use and restrictions on use

Use of the substance/mixture : Coatings and paints, thinners, paint removers

Recommended use : Primer

### 1.3. Supplier

U-POL US Inc
108 Commerce Way
Easton, PA 18040 - United States
T 1-800-340-7824 - F 1-800-787-5150
technicalsupport@u-pol.com - www.u-pol.com

### 1.4. Emergency telephone number

Emergency number : CHEMTREC - 1-800-424-9300

## SECTION 2: Hazard(s) identification

### 2.1. Classification of the substance or mixture

**GHS US classification**

| | |
|---|---|
| Flammable aerosol Category 1 | Extremely flammable aerosol |
| Gases under pressure Liquefied gas | Contains gas under pressure; may explode if heated |
| Serious eye damage/eye irritation Category 2 | Causes serious eye irritation |
| Skin sensitization, Category 1 | May cause an allergic skin reaction |
| Carcinogenicity Category 2 | Suspected of causing cancer |
| Specific target organ toxicity (single exposure) Category 3 | May cause drowsiness or dizziness |

### 2.2. GHS Label elements, including precautionary statements

**GHS US labeling**

Hazard pictograms (GHS US) :

Signal word (GHS US) : Danger

Hazard statements (GHS US) : Extremely flammable aerosol
Contains gas under pressure; may explode if heated
May cause an allergic skin reaction
Causes serious eye irritation
May cause drowsiness or dizziness
Suspected of causing cancer

Precautionary statements (GHS US) : If medical advice is needed, have product container or label at hand.
Keep out of reach of children.
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Do not spray on an open flame or other ignition source.
Pressurized container: Do not pierce or burn, even after use.
Avoid breathing vapors, spray, fume.
Wash hands thoroughly after handling.
Use only outdoors or in a well-ventilated area.
Contaminated work clothing must not be allowed out of the workplace.
Wear eye protection, protective clothing, protective gloves.
If on skin: Wash with plenty of water.
If inhaled: Remove person to fresh air and keep comfortable for breathing.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If exposed or concerned: Get medical advice/attention.
If skin irritation or rash occurs: Get medical advice/attention.
If eye irritation persists: Get medical advice/attention.
Wash contaminated clothing before reuse.
Store in a well-ventilated place. Keep container tightly closed.
Store locked up.
Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

### 2.3. Other hazards which do not result in classification

No additional information available

### 2.4. Unknown acute toxicity (GHS US)

31.86% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Vapors))

## SECTION 3: Composition/Information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

| Name | Product identifier | % | GHS US classification |
|---|---|---|---|
| ethyl methyl ketone | (CAS-No.) 78-93-3 | 23 – 43 | Flam. Liq. 2, H225<br>Eye Irrit. 2, H319<br>STOT SE 3, H336 |
| methyl acetate | (CAS-No.) 79-20-9 | 5 – 23 | Flam. Liq. 2, H225<br>Eye Irrit. 2, H319<br>STOT SE 3, H336 |
| titanium(IV) oxide | (CAS-No.) 13463-67-7 | < 5 | Carc. 2, H351 |
| talc | (CAS-No.) 14807-96-6 | < 5 | Carc. 2, H351 |
| cyclohexane | (CAS-No.) 110-82-7 | < 5 | Flam. Liq. 2, H225<br>Skin Irrit. 2, H315<br>STOT SE 3, H336<br>Asp. Tox. 1, H304<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410 |
| acetone | (CAS-No.) 67-64-1 | < 5 | Flam. Liq. 2, H225<br>Eye Irrit. 2, H319<br>STOT SE 3, H336 |
| carbon black | (CAS-No.) 1333-86-4 | < 5 | Carc. 2, H351 |
| fatty acids, C14-18 and C16-18-unsatd., maleated | (CAS-No.) 85711-46-2 | < 5 | Skin Irrit. 2, H315<br>Skin Sens. 1, H317 |
| ethylbenzene | (CAS-No.) 100-41-4 | < 5 | Flam. Liq. 2, H225<br>Acute Tox. 4 (Inhalation), H332<br>Acute Tox. 4 (Inhalation:vapour), H332<br>Carc. 2, H351<br>STOT RE 2, H373<br>Asp. Tox. 1, H304 |

Full text of hazard classes and H-statements : see section 16

## SECTION 4: First-aid measures

### 4.1. Description of first aid measures

First-aid measures general : IF exposed or concerned: Get medical advice/attention.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion : Call a poison center/doctor/physician if you feel unwell.

### 4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects : May cause drowsiness or dizziness.

Symptoms/effects after skin contact : May cause an allergic skin reaction.

Symptoms/effects after eye contact : Eye irritation.

### 4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

## SECTION 5: Fire-fighting measures

### 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

### 5.2. Specific hazards arising from the chemical

Fire hazard : Extremely flammable aerosol.

Reactivity : Extremely flammable aerosol.

### 5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

Protective equipment : Safety glasses. Protective clothing. Gloves.

Emergency procedures : Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid breathing vapors, spray, fume. Avoid contact with skin and eyes.

#### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

### 6.2. Environmental precautions

Avoid release to the environment.

### 6.3. Methods and material for containment and cleaning up

For containment : Contain released product, pump into suitable containers. Collect spillage.

Methods for cleaning up : Mechanically recover the product. Notify authorities if product enters sewers or public waters.

Other information : Dispose of materials or solid residues at an authorized site.

### 6.4. Reference to other sections

For further information refer to section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear personal protective equipment. Use only outdoors or in a well-ventilated area. Avoid breathing vapors, spray, fume. Avoid contact with skin and eyes.

Hygiene measures : Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Protect from sunlight. Store in a well-ventilated place. Do not expose to temperatures exceeding 50 °C/ 122 °F. Store locked up. Keep container tightly closed. Keep cool.

Storage temperature : < 25 °C

Special rules on packaging : Keep only in original container.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

| ethyl methyl ketone (78-93-3) | | |
|---|---|---|
| ACGIH | Local name | Methyl ethyl ketone (MEK) |
| ACGIH | ACGIH TWA (ppm) | 200 ppm |
| ACGIH | ACGIH STEL (ppm) | 300 ppm |
| ACGIH | Remark (ACGIH) | TLV® Basis: URT irr; CNS & PNS impair. Notations: BEI |
| ACGIH | Regulatory reference | ACGIH 2020 |

| ethyl methyl ketone (78-93-3) | | |
|---|---|---|
| OSHA | OSHA PEL (TWA) (mg/m³) | 590 mg/m³ |
| OSHA | OSHA PEL (TWA) (ppm) | 200 ppm |
| OSHA | Regulatory reference (US-OSHA) | OSHA Annotated Table Z-1 |

| titanium(IV) oxide (13463-67-7) | | |
|---|---|---|
| ACGIH | Local name | Titanium dioxide |
| ACGIH | ACGIH TWA (mg/m³) | 10 mg/m³ |
| ACGIH | Remark (ACGIH) | TLV® Basis: LRT irr. Notations: A4 (Not classifiable as a Human Carcinogen) |
| ACGIH | Regulatory reference | ACGIH 2020 |
| OSHA | OSHA PEL (TWA) (mg/m³) | 15 mg/m³ |
| OSHA | Regulatory reference (US-OSHA) | OSHA Annotated Table Z-1 |

| carbon black (1333-86-4) | | |
|---|---|---|
| ACGIH | Local name | Carbon black |
| ACGIH | ACGIH TWA (mg/m³) | 3 mg/m³ (Inhalable fraction) |
| ACGIH | Remark (ACGIH) | TLV® Basis: Bronchitis. Notations: A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans) |
| ACGIH | Regulatory reference | ACGIH 2020 |
| OSHA | OSHA PEL (TWA) (mg/m³) | 3.5 mg/m³ |
| OSHA | Regulatory reference (US-OSHA) | OSHA Annotated Table Z-1 |

| acetone (67-64-1) | | |
|---|---|---|
| ACGIH | Local name | Acetone |
| ACGIH | ACGIH TWA (ppm) | 250 ppm |
| ACGIH | ACGIH STEL (ppm) | 500 ppm |
| ACGIH | Remark (ACGIH) | TLV® Basis: URT & eye irr; CNS impair. Notations: A4 (Not classifiable as a Human Carcinogen); BEI |
| ACGIH | Regulatory reference | ACGIH 2020 |
| OSHA | OSHA PEL (TWA) (mg/m³) | 2400 mg/m³ |
| OSHA | OSHA PEL (TWA) (ppm) | 1000 ppm |
| OSHA | Regulatory reference (US-OSHA) | OSHA Annotated Table Z-1 |

| methyl acetate (79-20-9) | | |
|---|---|---|
| ACGIH | Local name | Methyl acetate |
| ACGIH | ACGIH TWA (ppm) | 200 ppm |
| ACGIH | ACGIH STEL (ppm) | 250 ppm |
| ACGIH | Remark (ACGIH) | TLV® Basis: Headache; dizziness; nausea; eye dam (degeneration of ganglion cells in the retina) |
| ACGIH | Regulatory reference | ACGIH 2020 |
| OSHA | OSHA PEL (TWA) (mg/m³) | 610 mg/m³ |
| OSHA | OSHA PEL (TWA) (ppm) | 200 ppm |
| OSHA | Regulatory reference (US-OSHA) | OSHA Annotated Table Z-1 |

| cyclohexane (110-82-7) | | |
|---|---|---|
| ACGIH | Local name | Cyclohexane |
| ACGIH | ACGIH TWA (ppm) | 100 ppm |
| ACGIH | Remark (ACGIH) | TLV® Basis: CNS impair |
| ACGIH | Regulatory reference | ACGIH 2020 |
| OSHA | OSHA PEL (TWA) (mg/m³) | 1050 mg/m³ |

| cyclohexane (110-82-7) | | |
|---|---|---|
| OSHA | OSHA PEL (TWA) (ppm) | 300 ppm |
| OSHA | Regulatory reference (US-OSHA) | OSHA Annotated Table Z-1 |

| talc (14807-96-6) | | |
|---|---|---|
| ACGIH | Local name | Talc |
| ACGIH | ACGIH TWA (mg/m³) | 2 mg/m³ (Respirable fraction. The value is for particulate matter containing no asbestos and < 1% crystalline silica) |
| ACGIH | ACGIH TWA (ppm) | 0.1 fibers/cm³ (Containing asbestos fibers. F - Respirable fibers) |
| ACGIH | Remark (ACGIH) | Containing no asbestos fibers = TLV® Basis: Pulm fibrosis; pulm func. Notations: A4<br>Containing asbestos fibers = TLV® Basis: Pneumoconiosis; lung cancer; mesothelioma. Notations: A1 (Confirmed Human Carcinogen) |
| ACGIH | Regulatory reference | ACGIH 2020 |
| OSHA | OSHA PEL (TWA) (ppm) | 20 mppcf |
| OSHA | Remark (OSHA) | Table Z-3. CAS No. source: eCFR Table Z-1. |
| OSHA | Regulatory reference (US-OSHA) | OSHA Annotated Table Z-3 Mineral Dusts |

| fatty acids, C14-18 and C16-18-unsatd., maleated (85711-46-2) |
|---|
| Not applicable |

| ethylbenzene (100-41-4) | | |
|---|---|---|
| ACGIH | Local name | Ethylbenzene |
| ACGIH | ACGIH TWA (ppm) | 20 ppm |
| ACGIH | Remark (ACGIH) | TLV® Basis: URT irr; kidney dam (nephropathy); cochlear impair. Notations: A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans); BEI |
| ACGIH | Regulatory reference | ACGIH 2020 |
| OSHA | OSHA PEL (TWA) (mg/m³) | 435 mg/m³ |
| OSHA | OSHA PEL (TWA) (ppm) | 100 ppm |
| OSHA | Regulatory reference (US-OSHA) | OSHA Annotated Table Z-1 |

### 8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.

Environmental exposure controls : Avoid release to the environment.

### 8.3. Individual protection measures/Personal protective equipment

**Personal protective equipment:**

Gloves. Protective clothing. Safety glasses.

**Materials for protective clothing:**

Impermeable clothing

**Hand protection:**

Protective gloves

**Eye protection:**

Safety glasses

**Skin and body protection:**

Wear suitable protective clothing

**Respiratory protection:**

In case of insufficient ventilation, wear suitable respiratory equipment

**Personal protective equipment symbol(s):**

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

| | | |
|---|---|---|
| Physical state | : | Liquid |
| Appearance | : | Aerosol. |
| | : | Gray |
| | : | There may be no odour warning properties, odour is subjective and inadequate to warn of overexposure.<br>Mixture contains one or more component(s) which have the following odour:<br>Odourless Fruity odour Mild odour Ether-like odour Pleasant odour Aromatic odour Peppermint odour Irritating/pungent odour Petroleum-like odour Sweet odour Acetone odour<br>Commercial/unpurified substance: irritating/pungent odour |
| Odor threshold | : | No data available |
| pH | : | No data available |
| Melting point | : | Not applicable |
| Freezing point | : | No data available |
| Boiling point | : | No data available |
| Flash point | : | No data available |
| Relative evaporation rate (butyl acetate=1) | : | No data available |
| Flammability (solid, gas) | : | Extremely flammable aerosol. |
| Vapor pressure | : | No data available |
| Relative vapor density at 20 °C | : | No data available |
| Relative density | : | No data available |
| Specific gravity / density | : | 0.777 g/cm³ |
| Solubility | : | insoluble in water. soluble in most organic solvents. |
| Partition coefficient n-octanol/water (Log Pow) | : | No data available |
| Auto-ignition temperature | : | No data available |
| Decomposition temperature | : | No data available |
| Viscosity, kinematic | : | No data available |
| Viscosity, dynamic | : | No data available |
| Explosion limits | : | No data available |
| Explosive properties | : | No data available |
| Oxidizing properties | : | No data available |

### 9.2. Other information

| | | |
|---|---|---|
| As Packaged Regulatory VOC | : | 679 g/l (5.7 lbs/gal) |
| As Packaged Actual VOC | : | 679 g/l (5.7 lbs/gal) |
| As Applied Regulatory VOC | : | 679 g/l (5.7 lbs/gal) |
| As Applied Actual VOC | : | 679 g/l (5.7 lbs/gal) |
| Water Content | | 0 wt% |
| Volatiles | : | 82.1 wt% |
| % HAPS | : | 31.9 wt% |
| Percent Solids | : | 17.91 wt% |
| Percent Solids | : | 6.98 vol % |
| | | |
| Maximum Incremental Activity (MIR) | : | 0.87 |
| MIR EPA Aerosol Category | : | ABP 1.55 - Auto Body Primer |
| MIR CARB Aerosol Category | : | ABP 0.95 - Auto Body Primer - Specialty Coatings (A) |

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Extremely flammable aerosol.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified

Acute toxicity (dermal) : Not classified

Acute toxicity (inhalation) : Not classified

| | |
|---|---|
| Unknown acute toxicity (GHS US) | 31.86% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Vapors)) |

| **ethyl methyl ketone (78-93-3)** | |
|---|---|
| LD50 oral rat | 2193 mg/kg body weight (Equivalent or similar to OECD 423, Rat, Male / female, Read-across, Oral) |
| LD50 dermal rabbit | > 10 ml/kg (Equivalent or similar to OECD 402, 24 h, Rabbit, Male, Experimental value, Dermal) |
| ATE US (oral) | 2193 mg/kg body weight |

| **titanium(IV) oxide (13463-67-7)** | |
|---|---|
| LD50 oral rat | > 5000 mg/kg body weight Animal: rat, Animal sex: female, Guideline: OECD Guideline 425 (Acute Oral Toxicity: Up-and-Down Procedure), Guideline: EPA OPPTS 870.1100 (Acute Oral Toxicity) |
| LC50 Inhalation - Rat | > 6.82 mg/l (Other, 4 h, Rat, Male, Experimental value, Inhalation (dust), 14 day(s)) |

| **carbon black (1333-86-4)** | |
|---|---|
| LD50 oral rat | > 8000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity) |
| LC50 Inhalation - Rat | > 4.6 mg/l air (Equivalent or similar to OECD 403, 4 h, Rat, Experimental value, Inhalation (dust)) |

| **acetone (67-64-1)** | |
|---|---|
| LD50 oral rat | 5800 mg/kg body weight Animal: rat, Animal sex: female |
| LD50 dermal rabbit | 20000 mg/kg (Equivalent or similar to OECD 402, Rabbit, Male, Experimental value, Dermal) |
| LC50 Inhalation - Rat | 76 mg/l air Animal: rat, Animal sex: female, 95% CL: 65,2 - 88,4 |
| ATE US (oral) | 5800 mg/kg body weight |
| ATE US (dermal) | 20000 mg/kg body weight |

| **methyl acetate (79-20-9)** | |
|---|---|
| LD50 oral rat | 6482 mg/kg body weight Animal: rat, Animal sex: male, Guideline: OECD Guideline 401 (Acute Oral Toxicity) |
| LD50 dermal rat | > 2000 mg/kg body weight Animal: rat, Guideline: EU Method B.3 (Acute Toxicity (Dermal)), Guideline: OECD Guideline 402 (Acute Dermal Toxicity) |
| LC50 Inhalation - Rat | 49 mg/l |
| ATE US (oral) | 6482 mg/kg body weight |
| ATE US (vapors) | 49 mg/l/4h |
| ATE US (dust, mist) | 49 mg/l/4h |

| **cyclohexane (110-82-7)** | |
|---|---|
| LD50 oral rat | > 5000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity) |
| LD50 dermal rabbit | > 2000 mg/kg body weight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity) |

| cyclohexane (110-82-7) | |
|---|---|
| LC50 Inhalation - Rat | > 32.88 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity) |

| talc (14807-96-6) | |
|---|---|
| LD50 oral rat | > 5000 mg/kg body weight |
| LD50 dermal rat | > 2000 mg/kg body weight |
| LC50 Inhalation - Rat | > 2.1 mg/l (OECD 403: Acute Inhalation Toxicity, 4 h, Rat, Male / female, Experimental value, Inhalation (aerosol), 15 day(s)) |

| fatty acids, C14-18 and C16-18-unsatd., maleated (85711-46-2) | |
|---|---|
| LD50 oral rat | > 2000 mg/kg body weight Animal: rat, Animal sex: female, Guideline: OECD Guideline 423 (Acute Oral toxicity - Acute Toxic Class Method) |
| LD50 dermal rat | > 2000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity) |

| ethylbenzene (100-41-4) | |
|---|---|
| LD50 oral rat | 3500 mg/kg (Rat, Male / female, Experimental value, Oral, 14 day(s)) |
| LD50 dermal rabbit | 15432 mg/kg body weight (24 h, Rabbit, Male, Experimental value, Dermal) |
| LC50 Inhalation - Rat | 17.8 mg/l (4 h, Rat, Male, Experimental value, Inhalation (vapours)) |
| ATE US (oral) | 3500 mg/kg body weight |
| ATE US (dermal) | 15432 mg/kg body weight |
| ATE US (gases) | 4500 ppmV/4h |
| ATE US (vapors) | 17.8 mg/l/4h |
| ATE US (dust, mist) | 1.5 mg/l/4h |

Skin corrosion/irritation : Not classified

Serious eye damage/irritation : Causes serious eye irritation.

Respiratory or skin sensitization : May cause an allergic skin reaction.

Germ cell mutagenicity : Not classified

Carcinogenicity : Suspected of causing cancer.

| titanium(IV) oxide (13463-67-7) | |
|---|---|
| IARC group | 2B - Possibly carcinogenic to humans |

| carbon black (1333-86-4) | |
|---|---|
| IARC group | 2B - Possibly carcinogenic to humans |

| talc (14807-96-6) | |
|---|---|
| IARC group | 3 - Not classifiable, 2B - Possibly carcinogenic to humans |

| ethylbenzene (100-41-4) | |
|---|---|
| IARC group | 2B - Possibly carcinogenic to humans |

Reproductive toxicity : Not classified

STOT-single exposure : May cause drowsiness or dizziness.

| ethyl methyl ketone (78-93-3) | |
|---|---|
| STOT-single exposure | May cause drowsiness or dizziness. |

| acetone (67-64-1) | |
|---|---|
| STOT-single exposure | May cause drowsiness or dizziness. |

| methyl acetate (79-20-9) | |
|---|---|
| STOT-single exposure | May cause drowsiness or dizziness. |

| cyclohexane (110-82-7) | |
|---|---|
| STOT-single exposure | May cause drowsiness or dizziness. |

STOT-repeated exposure : Not classified

| methyl acetate (79-20-9) | |
|---|---|
| LOAEC (inhalation,rat,vapor,90 days) | 2000 mg/l |
| NOAEC (inhalation,rat,vapor,90 days) | 1057 mg/m³ |

| fatty acids, C14-18 and C16-18-unsatd., maleated (85711-46-2) | |
|---|---|
| NOAEL (oral,rat,90 days) | 1000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test) |

| ethylbenzene (100-41-4) | |
|---|---|
| NOAEL (oral,rat,90 days) | 75 mg/kg body weight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents) |
| STOT-repeated exposure | May cause damage to organs through prolonged or repeated exposure. |

Aspiration hazard : Not classified

Viscosity, kinematic : No data available

Symptoms/effects : May cause drowsiness or dizziness.

Symptoms/effects after skin contact : May cause an allergic skin reaction.

Symptoms/effects after eye contact : Eye irritation.

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

| ethyl methyl ketone (78-93-3) | |
|---|---|
| LC50 fish 1 | 2993 mg/l Test organisms (species): Pimephales promelas |
| EC50 Daphnia 1 | 308 mg/l Test organisms (species): Daphnia magna |
| ErC50 (algae) | 1972 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, GLP) |

| titanium(IV) oxide (13463-67-7) | |
|---|---|
| LC50 fish 1 | 155 mg/l Test organisms (species): other:Japanese Medaka |
| EC50 Daphnia 1 | 19.3 mg/l Test organisms (species): Daphnia magna |
| EC50 Daphnia 2 | 27.8 mg/l Test organisms (species): Daphnia magna |
| ErC50 (algae) | 61 mg/l (EPA 600/9-78-018, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, Nominal concentration) |
| NOEC (chronic) | ≥ 2.92 mg/l Test organisms (species): Daphnia magna Duration: '21 d' |

| carbon black (1333-86-4) | |
|---|---|
| LC50 fish 1 | > 1000 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Danio rerio, Semi-static system, Fresh water, Experimental value, Lethal) |
| EC50 Daphnia 1 | > 5600 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 24 h, Daphnia magna, Static system, Fresh water, Experimental value, Locomotor effect) |
| ErC50 (algae) | > 10000 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Desmodesmus subspicatus, Static system, Fresh water, Experimental value, Nominal concentration) |

| acetone (67-64-1) | |
|---|---|
| LC50 fish 1 | 5540 mg/l (EU Method C.1, 96 h, Salmo gairdneri, Static system, Fresh water, Experimental value, Nominal concentration) |
| LOEC (chronic) | > 79 mg/l Test organisms (species): Daphnia magna Duration: '21 d' |
| NOEC (chronic) | ≥ 79 mg/l Test organisms (species): Daphnia magna Duration: '21 d' |

| methyl acetate (79-20-9) | |
|---|---|
| LC50 fish 1 | 250 – 350 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio) |
| EC50 Daphnia 1 | 1026.7 mg/l Test organisms (species): Daphnia magna |

| cyclohexane (110-82-7) | |
|---|---|
| LC50 fish 1 | 4.53 mg/l Test organisms (species): Pimephales promelas |
| EC50 Daphnia 1 | 0.9 mg/l Test organisms (species): Daphnia magna |
| ErC50 (algae) | 9.317 mg/l (Equivalent or similar to OECD 201, 72 h, Pseudokirchneriella subcapitata, Experimental value, GLP) |

| talc (14807-96-6) | |
|---|---|
| LC50 fish 1 | 89581 mg/l (ECOSAR v1.00, 96 h, Pisces, Fresh water, QSAR) |

| fatty acids, C14-18 and C16-18-unsatd., maleated (85711-46-2) | |
|---|---|
| LC50 fish 1 | ≥ 1.17 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio) |
| EC50 Daphnia 1 | > 5.3 mg/l Test organisms (species): Daphnia magna |

| ethylbenzene (100-41-4) | |
|---|---|
| LC50 fish 1 | 5.1 mg/l Test organisms (species): Menidia menidia |
| EC50 Daphnia 1 | 1.8 – 2.4 mg/l (US EPA, 48 h, Daphnia magna, Static system, Fresh water, Experimental value) |
| LOEC (chronic) | 1.7 mg/l Test organisms (species): Ceriodaphnia dubia Duration: '7 d' |
| NOEC (chronic) | 0.96 mg/l Test organisms (species): Ceriodaphnia dubia Duration: '7 d' |

### 12.2. Persistence and degradability

| ethyl methyl ketone (78-93-3) | |
|---|---|
| Persistence and degradability | Biodegradable in the soil. Biodegradable in the soil under anaerobic conditions. Readily biodegradable in water. |
| Biochemical oxygen demand (BOD) | 2.03 g $O_2$/g substance |
| Chemical oxygen demand (COD) | 2.31 g $O_2$/g substance |
| ThOD | 2.44 g $O_2$/g substance |

| titanium(IV) oxide (13463-67-7) | |
|---|---|
| Persistence and degradability | Biodegradability: not applicable. |
| Chemical oxygen demand (COD) | Not applicable (inorganic) |
| ThOD | Not applicable (inorganic) |

| carbon black (1333-86-4) | |
|---|---|
| Persistence and degradability | Biodegradability in soil: not applicable. Biodegradability: not applicable. |
| Chemical oxygen demand (COD) | Not applicable (inorganic) |
| ThOD | Not applicable (inorganic) |

| acetone (67-64-1) | |
|---|---|
| Persistence and degradability | Biodegradable in the soil. Biodegradable in the soil under anaerobic conditions. Readily biodegradable in water. |
| Biochemical oxygen demand (BOD) | 1.43 g $O_2$/g substance |
| Chemical oxygen demand (COD) | 1.92 g $O_2$/g substance |
| ThOD | 2.2 g $O_2$/g substance |
| BOD (% of ThOD) | 0.872 (20 day(s), Literature study) |

| methyl acetate (79-20-9) | |
|---|---|
| Persistence and degradability | Readily biodegradable in water. |

| cyclohexane (110-82-7) | |
|---|---|
| Persistence and degradability | Non degradable in the soil. Readily biodegradable in water. |
| Biochemical oxygen demand (BOD) | 0.22 g $O_2$/g substance |
| ThOD | 3.425 g $O_2$/g substance |

| talc (14807-96-6) | |
|---|---|
| Persistence and degradability | Biodegradability: not applicable. |
| Chemical oxygen demand (COD) | Not applicable |
| ThOD | Not applicable |
| BOD (% of ThOD) | Not applicable |

| ethylbenzene (100-41-4) | |
|---|---|
| Persistence and degradability | Biodegradable in the soil. Readily biodegradable in water. |
| Biochemical oxygen demand (BOD) | 1.44 g $O_2$/g substance |
| Chemical oxygen demand (COD) | 2.1 g $O_2$/g substance |
| ThOD | 3.17 g $O_2$/g substance |

### 12.3. Bioaccumulative potential

| ethyl methyl ketone (78-93-3) | |
|---|---|
| Partition coefficient n-octanol/water (Log Pow) | 0.3 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 40 °C) |
| Bioaccumulative potential | Low potential for bioaccumulation (Log Kow < 4). |

| titanium(IV) oxide (13463-67-7) | |
|---|---|
| Bioaccumulative potential | Not bioaccumulative. |

| carbon black (1333-86-4) | |
|---|---|
| Bioaccumulative potential | Not bioaccumulative. |

| acetone (67-64-1) | |
|---|---|
| BCF fish 1 | 0.69 (Pisces) |
| BCF other aquatic organisms 1 | 3 (BCFWIN, Calculated value) |
| Partition coefficient n-octanol/water (Log Pow) | -0.24 (Test data) |
| Bioaccumulative potential | Not bioaccumulative. |

| methyl acetate (79-20-9) | |
|---|---|
| BCF fish 1 | < 1 (Pisces, Literature study) |
| Partition coefficient n-octanol/water (Log Pow) | 0.18 (Experimental value, 20 °C) |
| Bioaccumulative potential | Low potential for bioaccumulation (Log Kow < 4). |

| cyclohexane (110-82-7) | |
|---|---|
| BCF fish 1 | 167 (Pimephales promelas, QSAR) |
| Partition coefficient n-octanol/water (Log Pow) | 3.44 (Experimental value, Other, 25 °C) |
| Bioaccumulative potential | Low potential for bioaccumulation (BCF < 500). |

| talc (14807-96-6) | |
|---|---|
| BCF other aquatic organisms 1 | 3.162 l/kg (BCFBAF v3.01, Fresh water, QSAR) |
| Partition coefficient n-octanol/water (Log Pow) | -9.4 (QSAR, KOWWIN, 25 °C) |
| Bioaccumulative potential | Not established. |

| ethylbenzene (100-41-4) | |
|---|---|
| BCF fish 1 | 1 (6 week(s), Oncorhynchus kisutch, Flow-through system, Salt water, Experimental value) |
| Partition coefficient n-octanol/water (Log Pow) | 3.6 (Experimental value, EU Method A.8: Partition Coefficient, 20 °C) |
| Bioaccumulative potential | Low potential for bioaccumulation (BCF < 500). |

### 12.4. Mobility in soil

| ethyl methyl ketone (78-93-3) | |
|---|---|
| Surface tension | 0.024 N/m (20 °C) |
| Partition coefficient n-octanol/water (Log Koc) | 1.53 (log Koc, Calculated value) |
| Ecology - soil | Highly mobile in soil. Slightly harmful to plants. |

| titanium(IV) oxide (13463-67-7) | |
|---|---|
| Ecology - soil | Low potential for mobility in soil. |

| carbon black (1333-86-4) | |
|---|---|
| Surface tension | Not applicable (solid) |
| Ecology - soil | No (test)data on mobility of the substance available. Not toxic to plants. Not toxic to animals. |

| acetone (67-64-1) | |
|---|---|
| Surface tension | 0.0237 N/m |
| Ecology - soil | No (test)data on mobility of the substance available. |

| methyl acetate (79-20-9) | |
|---|---|
| Surface tension | 24 mN/m (20 °C) |
| Partition coefficient n-octanol/water (Log Koc) | 0.18 (log Koc, OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC), Experimental value, GLP) |
| Ecology - soil | Highly mobile in soil. |

| cyclohexane (110-82-7) | |
|---|---|
| Surface tension | 0.025 N/m (20 °C) |
| Partition coefficient n-octanol/water (Log Koc) | 2.89 (log Koc, QSAR) |
| Ecology - soil | Low potential for adsorption in soil. |

| talc (14807-96-6) | |
|---|---|
| Ecology - soil | Adsorbs into the soil. |

| ethylbenzene (100-41-4) | |
|---|---|
| Surface tension | 71.2 mN/m (23 °C, 0.058 g/l, EU Method A.5: Surface tension) |
| Partition coefficient n-octanol/water (Log Koc) | 2.71 (log Koc, PCKOCWIN v1.66, QSAR) |
| Ecology - soil | Low potential for adsorption in soil. Toxic to soil organisms. |

### 12.5. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Disposal methods

Regional legislation (waste) : Disposal must be done according to official regulations.

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

## SECTION 14: Transport information

### Department of Transportation (DOT)

In accordance with DOT

Transport document description : UN1950 Aerosols (flammable), 2.1

UN-No.(DOT) : UN1950

Proper Shipping Name (DOT) : Aerosols
flammable

Class (DOT) : 2.1 - Class 2.1 - Flammable gas 49 CFR 173.115

Hazard labels (DOT) : 2.1 - Flammable gas


DOT Packaging Non Bulk (49 CFR 173.xxx) : None

DOT Packaging Bulk (49 CFR 173.xxx) : None

DOT Special Provisions (49 CFR 172.102) : N82 - See 173.306 of this subchapter for classification criteria for flammable aerosols.

DOT Packaging Exceptions (49 CFR 173.xxx) : 306

DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) : 75 kg

DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) : 150 kg

DOT Vessel Stowage Location : A - The material may be stowed ''on deck'' or ''under deck'' on a cargo vessel and on a passenger vessel.

DOT Vessel Stowage Other : 25 - Protected from sources of heat,87 - Stow ''separated from'' Class 1 (explosives) except Division 14,126 - Segregation same as for Class 9, miscellaneous hazardous materials

Emergency Response Guide (ERG) Number : 126

Other information : No supplementary information available.

### Transportation of Dangerous Goods

Transport document description : UN1950 AEROSOLS (flammable), 2.1

UN-No. (TDG) : UN1950

Proper Shipping Name (Transportation of Dangerous Goods) : AEROSOLS

TDG Primary Hazard Classes : 2.1 - Class 2.1 - Flammable Gas

| | | |
|---|---|---|
| TDG Special Provisions | : | 80 - Despite section 1.17 of Part 1 (Coming into Force, Repeal, Interpretation, General Provisions and Special Cases), a person must not offer for transport or transport these dangerous goods unless they are in a means of containment that is in compliance with the requirements for transporting gases in Part 5 (Means of Containment),107 - (1) These Regulations, except for Part 1 (Coming into Force, Repeal, Interpretation, General Provisions and Special Cases) and Part 2 (Classification), do not apply to the handling, offering for transport or transporting of UN1950, AEROSOLS, and UN2037, GAS CARTRIDGES, that contain dangerous goods included in Class 2.1 or Class 2.2 and that are transported on a road vehicle, a railway vehicle or a vessel on a domestic voyage, if the aerosols or gas cartridges have a capacity less than or equal to 50 mL.<br>(2) Subsection (1) does not apply to self-defence spray. |
| Explosive Limit and Limited Quantity Index | : | 1 L |
| Passenger Carrying Road Vehicle or Passenger Carrying Railway Vehicle Index | : | 75 L |

### Transport by sea

| | | |
|---|---|---|
| Transport document description (IMDG) | : | UN 1950 AEROSOLS, 2.1 |
| UN-No. (IMDG) | : | 1950 |
| Proper Shipping Name (IMDG) | : | AEROSOLS |
| Class (IMDG) | : | 2 - Gases |

### Air transport

| | | |
|---|---|---|
| Transport document description (IATA) | : | UN 1950 Aerosols, flammable, 2.1 |
| UN-No. (IATA) | : | 1950 |
| Proper Shipping Name (IATA) | : | Aerosols, flammable |
| Class (IATA) | : | 2 |

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

| | | |
|---|---|---|
| cyclohexane | CAS-No. 110-82-7 | < 5% |
| ethylbenzene | CAS-No. 100-41-4 | < 5% |

| **ethyl methyl ketone (78-93-3)** | |
|---|---|
| Listed on the United States TSCA (Toxic Substances Control Act) inventory<br>Listed on EPA Hazardous Air Pollutant (HAPS) | |
| Listed on EPA Hazardous Air Pollutant (HAPS) | |
| CERCLA RQ | 5000 lb |

| **titanium(IV) oxide (13463-67-7)** |
|---|
| Listed on the United States TSCA (Toxic Substances Control Act) inventory |

| **carbon black (1333-86-4)** |
|---|
| Listed on the United States TSCA (Toxic Substances Control Act) inventory |

| **acetone (67-64-1)** | |
|---|---|
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | |
| CERCLA RQ | 5000 lb |

| **methyl acetate (79-20-9)** |
|---|
| Listed on the United States TSCA (Toxic Substances Control Act) inventory |

| **cyclohexane (110-82-7)** | |
|---|---|
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | |
| CERCLA RQ | 1000 lb |

| **talc (14807-96-6)** |
|---|
| Listed on the United States TSCA (Toxic Substances Control Act) inventory |

| fatty acids, C14-18 and C16-18-unsatd., maleated (85711-46-2) | |
|---|---|
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | |
| EPA TSCA Regulatory Flag | PMN - PMN - indicates a commenced PMN substance. |

| ethylbenzene (100-41-4) | |
|---|---|
| Listed on the United States TSCA (Toxic Substances Control Act) inventory<br>Listed on EPA Hazardous Air Pollutant (HAPS) | |
| Listed on EPA Hazardous Air Pollutant (HAPS) | |
| CERCLA RQ | 1000 lb |

### 15.2. International regulations

#### CANADA

| ethyl methyl ketone (78-93-3) |
|---|
| Listed on the Canadian DSL (Domestic Substances List) |

| titanium(IV) oxide (13463-67-7) |
|---|
| Listed on the Canadian DSL (Domestic Substances List) |

| carbon black (1333-86-4) |
|---|
| Listed on the Canadian DSL (Domestic Substances List) |

| acetone (67-64-1) |
|---|
| Listed on the Canadian DSL (Domestic Substances List) |

| methyl acetate (79-20-9) |
|---|
| Listed on the Canadian DSL (Domestic Substances List) |

| cyclohexane (110-82-7) |
|---|
| Listed on the Canadian DSL (Domestic Substances List) |

| talc (14807-96-6) |
|---|
| Listed on the Canadian DSL (Domestic Substances List) |

| fatty acids, C14-18 and C16-18-unsatd., maleated (85711-46-2) |
|---|
| Listed on the Canadian NDSL (Non-Domestic Substances List) |

| ethylbenzene (100-41-4) |
|---|
| Listed on the Canadian DSL (Domestic Substances List) |

#### EU-Regulations

No additional information available

#### National regulations

| titanium(IV) oxide (13463-67-7) |
|---|
| Listed on IARC (International Agency for Research on Cancer) |

| carbon black (1333-86-4) |
|---|
| Listed on IARC (International Agency for Research on Cancer) |

| ethylbenzene (100-41-4) |
|---|
| Listed on IARC (International Agency for Research on Cancer) |

### 15.3. US State regulations

⚠ **WARNING:** This product can expose you to carbon black, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

| Component | Carcinogenicity | Developmental toxicity | Reproductive toxicity male | Reproductive toxicity female | No significant risk level (NSRL) | Maximum allowable dose level (MADL) |
|---|---|---|---|---|---|---|
| carbon black(1333-86-4) | X | | | | | |
| ethylbenzene(100-41-4) | X | | | | 54 µg/day (inhalation); 41 µg/day (oral) | |

| Component | State or local regulations |
|---|---|
| titanium(IV) oxide(13463-67-7) | U.S. - Massachusetts - Right To Know List; U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. – New York City – Right to Know Hazardous Substances List; U.S. - Pennsylvania - RTK (Right to Know) List |
| carbon black(1333-86-4) | U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations; U.S. - Massachusetts - Right To Know List; U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - Pennsylvania - RTK (Right to Know) List |
| talc(14807-96-6) | U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - Pennsylvania - RTK (Right to Know) List |
| ethylbenzene(100-41-4) | U.S. - Delaware - Pollutant Discharge Requirements - Reportable Quantities; U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations; U.S. - Massachusetts - Right To Know List; U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. – New York City – Right to Know Hazardous Substances List; U.S. - Pennsylvania - RTK (Right to Know) List |
| ethyl methyl ketone(78-93-3) | U.S. - Delaware - Pollutant Discharge Requirements - Reportable Quantities; U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations; U.S. - Massachusetts - Right To Know List; U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. – New York City – Right to Know Hazardous Substances List; U.S. - Pennsylvania - RTK (Right to Know) List |
| cyclohexane(110-82-7) | U.S. - Delaware - Pollutant Discharge Requirements - Reportable Quantities; U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations; U.S. - Massachusetts - Right To Know List; U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. – New York City – Right to Know Hazardous Substances List; U.S. - Pennsylvania - RTK (Right to Know) List |
| acetone(67-64-1) | U.S. - Delaware - Pollutant Discharge Requirements - Reportable Quantities; U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations; U.S. - Massachusetts - Right To Know List; U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. – New York City – Right to Know Hazardous Substances List; U.S. - Pennsylvania - RTK (Right to Know) List |
| methyl acetate(79-20-9) | U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations; U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. – New York City – Right to Know Hazardous Substances List; U.S. - Pennsylvania - RTK (Right to Know) List |

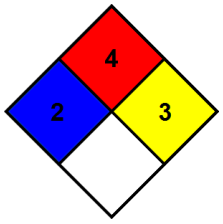
## SECTION 16: Other information

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

NFPA health hazard : 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.

NFPA fire hazard : 4 - Materials that rapidly or completely vaporize at atmospheric pressure and normal ambient temperature or that are readily dispersed in air and burn readily.

NFPA reactivity : 3 - Materials that in themselves are capable of detonation or explosive decomposition or explosive reaction but that require a strong initiating source or must be heated under confinement before initiation.




Indication of changes:

| Section | Changed item | Change | Comments |
|---|---|---|---|
| | Supersedes | Modified | |
| | Revision date | Modified | |

SDS US GHS (GHS HazCom2012)

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