



DRIVING SURFACE PERFECTION

# RAPTOR PROTECTIVE COATING - BLACK BASE

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations  
SDS ID: RLB-R-US-SDS  
Issue date: 6/2/2016 Revision date: 7/14/2021 Supersedes: 11/18/2020 Version: 2.3

### SECTION 1: Identification

#### 1.1. Identification

Product form : Mixture  
Trade name : RAPTOR PROTECTIVE COATING - BLACK BASE  
Product code : RLB/1  
UP Number : UP0822  
Other means of identification : Component of: UP0820, UP0820V, UP4801, UP4803, UP5010, UP0820VG, UP0820G

#### 1.2. Recommended use and restrictions on use

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

#### 1.3. Supplier

U-POL US Inc Inc.  
50 Applied Bank Blvd., Suite 300 Glen Mills  
Pennsylvania, PA 19342  
United States  
T (610) 746 7081  
[technicalsupport@u-pol.com](mailto:technicalsupport@u-pol.com) - [www.u-pol.com](http://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 liquids Category 2   | Highly flammable liquid and vapor                                 |
| 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, Narcosis | May cause drowsiness or dizziness                                 |
| Specific target organ toxicity (repeated exposure) Category 2          | May cause damage to organs through prolonged or repeated exposure |

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

##### GHS US labeling

Hazard pictograms (GHS US) :



Signal word (GHS US) : Danger  
Hazard statements (GHS US) : Highly flammable liquid and vapor  
May cause an allergic skin reaction  
Causes serious eye irritation  
May cause drowsiness or dizziness  
Suspected of causing cancer  
May cause damage to organs through prolonged or repeated exposure

# RAPTOR PROTECTIVE COATING - BLACK BASE

## Safety Data Sheet

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

Precautionary statements (GHS US) : 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.  
Keep container tightly closed.  
Use only non-sparking tools.  
Take precautionary measures against static discharge.  
Do not breathe 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 (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
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.  
Take off contaminated clothing and wash it before reuse.  
In case of fire: Use dry sand, extinguishing powder, foam to extinguish.  
Store in a well-ventilated place. Keep cool.  
Store locked up.  
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)

Not applicable

## SECTION 3: Composition/Information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

| Name   | Product identifier | %      | GHS US classification   |
|--|--------------------|--------|---|
| acetone  | CAS-No.: 67-64-1   | 5 – 23 | Flam. Liq. 2, H225<br>Eye Irrit. 2, H319<br>STOT SE 3, H336   |
| n-butyl acetate                                      | CAS-No.: 123-86-4  | < 23   | Flam. Liq. 3, H226<br>STOT SE 3, H336   |
| reaction mass of ethylbenzene, m-xylene and p-xylene | -                  | < 23   | Flam. Liq. 3, H226<br>Acute Tox. 4 (Dermal), H312<br>Acute Tox. 4 (Inhalation), H332<br>Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>Carc. 2, H351<br>STOT SE 3, H335<br>STOT RE 2, H373<br>Asp. Tox. 1, H304 |

# RAPTOR PROTECTIVE COATING - BLACK BASE

## Safety Data Sheet

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

| Name   | Product identifier    | %   | GHS US classification  |
|--|-----------------------|-----|--|
| kieselguhr, soda ash flux calcined   | CAS-No.: 68855-54-9   | < 5 | STOT RE 2, H373  |
| carbon black   | CAS-No.: 1333-86-4    | < 5 | Carc. 2, H351  |
| Xylene   | CAS-No.: 1330-20-7    | < 5 | Flam. Liq. 3, H226<br>Acute Tox. 4 (Dermal), H312<br>Acute Tox. 4 (Inhalation), H332<br>Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>STOT SE 3, H335<br>STOT RE 2, H373<br>Asp. Tox. 1, H304 |
| ethylbenzene   | CAS-No.: 100-41-4     | < 5 | Flam. Liq. 3, H226<br>Acute Tox. 4 (Inhalation:vapour), H332<br>Carc. 2, H351<br>STOT RE 2, H373<br>Asp. Tox. 1, H304  |
| reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate   | CAS-No.: 1065336-91-5 | < 5 | Skin Sens. 1A, H317<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410  |
| reaction mass of $\alpha$ -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl- $\omega$ -hydroxypoly(oxyethylene) and $\alpha$ -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl- $\omega$ -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyloxypoly(oxyethylene) | CAS-No.: 104810-48-2  | < 5 | Skin Sens. 1A, H317<br>Aquatic Chronic 2, H411   |

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            | : Never give anything by mouth to an unconscious person. IF exposed or concerned: Get medical advice/attention.   |
| First-aid measures after inhalation   | : Remove person to fresh air and keep comfortable for breathing. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.  |
| First-aid measures after skin contact | : If skin irritation or rash occurs: Get medical advice/attention. Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Get medical advice/attention. Wash contaminated clothing before reuse. Repeated exposure may cause skin dryness or cracking. |
| 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. Get medical advice/attention. If eye irritation persists: Get medical advice/attention.  |
| First-aid measures after ingestion    | : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. Call a poison center/doctor/physician if you feel unwell.  |

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

|   |  |
|---|--|
| Potential Adverse human health effects and symptoms | : Based on available data, the classification criteria are not met.  |
| Symptoms/effects                                    | : Suspected of damaging fertility or the unborn child. Causes damage to organs. May cause drowsiness or dizziness. |
| Symptoms/effects after inhalation                   | : May cause an allergic skin reaction. May cause drowsiness or dizziness. May cause cancer by inhalation.          |

# RAPTOR PROTECTIVE COATING - BLACK BASE

## Safety Data Sheet

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

Symptoms/effects after skin contact : Irritation. May cause an allergic skin reaction.  
Symptoms/effects after eye contact : Causes serious eye irritation. 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 : Dry sand. Foam. Dry powder. Carbon dioxide. Water spray. Sand.  
Unsuitable extinguishing media : Do not use a heavy water stream.

### 5.2. Specific hazards arising from the chemical

Fire hazard : Highly flammable liquid and vapor.  
Explosion hazard : May form flammable/explosive vapor-air mixture.  
Hazardous decomposition products in case of fire : Toxic fumes may be released.

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

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.  
Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection. 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

General measures : Remove ignition sources. Use special care to avoid static electric charges. No open flames. No smoking.

#### 6.1.1. For non-emergency personnel

Protective equipment : Protective clothing. Gloves. Safety glasses.  
Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes. Do not breathe vapors. Evacuate unnecessary personnel. No open flames, no sparks, and no smoking. Avoid breathing fume, spray, vapors.

#### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. Equip cleanup crew with proper protection. Avoid breathing vapors. For further information refer to section 8: "Exposure controls/personal protection".  
Emergency procedures : Ventilate area.

### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

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

For containment : Contain released product. Collect spillage.  
Methods for cleaning up : Take up liquid spill into absorbent material. This material and its container must be disposed of in a safe way, and as per local legislation. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.  
Other information : Dispose of materials or solid residues at an authorized site.

# RAPTOR PROTECTIVE COATING - BLACK BASE

## Safety Data Sheet

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

### 6.4. Reference to other sections

For further information refer to section 13. See Heading 8. Exposure controls and personal protection.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

|                                   |   |
|-----------------------------------|---|
| Additional hazards when processed | : Keep away from Heat-ignition. - No smoking. Handle empty containers with care because residual vapors are flammable.  |
| Precautions for safe handling     | : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. No open flames. No smoking. Use only non-sparking tools. Avoid breathing vapors, fume. Use only outdoors or in a well-ventilated area. 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. Ground/bond container and receiving equipment. Take precautionary measures against static discharge. Flammable vapors may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Avoid contact with skin and eyes. |
| Hygiene measures                  | : Wash hands thoroughly after handling. 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

|                            |   |
|----------------------------|---|
| Technical measures         | : Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof electrical, Lighting equipment equipment.  |
| Storage conditions         | : Keep only in the original container in a cool, well ventilated place away from : Ignition sources, Heat sources, Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep in fireproof place. Keep container tightly closed. Store in a well-ventilated place. Keep cool. Store locked up. |
| Incompatible products      | : Strong bases. Strong acids.   |
| Incompatible materials     | : Sources of ignition. Direct sunlight. Heat sources.   |
| Storage temperature        | : < 25 °C   |
| Storage area               | : Store in well ventilated area.  |
| Special rules on packaging | : Keep only in original container.  |

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

| RAPTOR PROTECTIVE COATING - BLACK BASE     |  |
|--|--|
| No additional information available        |  |
| acetone (67-64-1)                          |  |
| USA - ACGIH - Occupational Exposure Limits |  |
| Local name                                 | Acetone  |
| ACGIH OEL TWA [ppm]                        | 250 ppm  |
| ACGIH OEL STEL [ppm]                       | 500 ppm  |
| Remark (ACGIH)                             | TLV® Basis: URT & eye irr; CNS impair. Notations: A4 (Not classifiable as a Human Carcinogen); BEI |
| Regulatory reference                       | ACGIH 2021   |

# RAPTOR PROTECTIVE COATING - BLACK BASE

## Safety Data Sheet

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

| <b>acetone (67-64-1)</b>  |  |
|---|--|
| <b>USA - ACGIH - Biological Exposure Indices</b>  |  |
| Local name  | ACETONE  |
| BEI (BLV)   | 25 mg/l Parameter: Acetone - Medium: urine - Sampling time: End of shift - Notations: Ns             |
| Regulatory reference  | ACGIH 2021   |
| <b>USA - OSHA - Occupational Exposure Limits</b>  |  |
| Local name  | Acetone  |
| OSHA PEL (TWA) [1]  | 2400 mg/m <sup>3</sup>   |
| OSHA PEL (TWA) [2]  | 1000 ppm   |
| Regulatory reference (US-OSHA)  | OSHA Annotated Table Z-1   |
| <b>carbon black (1333-86-4)</b>   |  |
| <b>USA - ACGIH - Occupational Exposure Limits</b>   |  |
| Local name  | Carbon black   |
| ACGIH OEL TWA   | 3 mg/m <sup>3</sup> (Inhalable fraction)   |
| Remark (ACGIH)  | TLV® Basis: Bronchitis. Notations: A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans) |
| Regulatory reference  | ACGIH 2021   |
| <b>USA - OSHA - Occupational Exposure Limits</b>  |  |
| Local name  | Carbon black   |
| OSHA PEL (TWA) [1]  | 3.5 mg/m <sup>3</sup>  |
| Regulatory reference (US-OSHA)  | OSHA Annotated Table Z-1   |
| <b>kieselguhr, soda ash flux calcined (68855-54-9)</b>  |  |
| No additional information available   |  |
| <b>n-butyl acetate (123-86-4)</b>   |  |
| <b>USA - ACGIH - Occupational Exposure Limits</b>   |  |
| Local name  | n-Butyl acetate  |
| ACGIH OEL TWA [ppm]   | 50 ppm   |
| ACGIH OEL STEL [ppm]  | 150 ppm  |
| Remark (ACGIH)  | TLV® Basis: Eye & URT irr  |
| Regulatory reference  | ACGIH 2021   |
| <b>USA - OSHA - Occupational Exposure Limits</b>  |  |
| Local name  | n-Butyl-acetate  |
| OSHA PEL (TWA) [1]  | 710 mg/m <sup>3</sup>  |
| OSHA PEL (TWA) [2]  | 150 ppm  |
| Regulatory reference (US-OSHA)  | OSHA Annotated Table Z-1   |
| <b>reaction mass of α-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-ω-hydroxypoly(oxyethylene) and α-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-ω-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyloxypoly(oxyethylene) (104810-48-2)</b> |  |
| No additional information available   |  |

# RAPTOR PROTECTIVE COATING - BLACK BASE

## Safety Data Sheet

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

|  |   |
|--|---|
| <b>reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate (1065336-91-5)</b> |   |
| No additional information available  |   |
| <b>reaction mass of ethylbenzene, m-xylene and p-xylene</b>  |   |
| No additional information available  |   |
| <b>Xylene (1330-20-7)</b>  |   |
| <b>USA - ACGIH - Occupational Exposure Limits</b>  |   |
| Local name   | Xylene, mixed isomers (Dimethylbenzene)   |
| ACGIH OEL TWA [ppm]  | 100 ppm   |
| ACGIH OEL STEL [ppm]   | 150 ppm   |
| Remark (ACGIH)   | TLV® Basis: URT & eye irr; CNS impair. Notations: A4 (Not classifiable as a Human Carcinogen); BEI  |
| Regulatory reference   | ACGIH 2021  |
| <b>USA - ACGIH - Biological Exposure Indices</b>   |   |
| Local name   | XYLENES (Technical or commercial grade)   |
| BEI (BLV)  | 1.5 g/g Kreatinin Parameter: Methylhippuric acids - Medium: urine - Sampling time: End of shift   |
| Regulatory reference   | ACGIH 2021  |
| <b>USA - OSHA - Occupational Exposure Limits</b>   |   |
| Local name   | Xylenes (o-, m-, p-isomers)   |
| OSHA PEL (TWA) [1]   | 435 mg/m <sup>3</sup>   |
| OSHA PEL (TWA) [2]   | 100 ppm   |
| Regulatory reference (US-OSHA)   | OSHA Annotated Table Z-1  |
| <b>ethylbenzene (100-41-4)</b>   |   |
| <b>USA - ACGIH - Occupational Exposure Limits</b>  |   |
| Local name   | Ethylbenzene  |
| ACGIH OEL TWA [ppm]  | 20 ppm  |
| Remark (ACGIH)   | TLV® Basis: URT irr; kidney dam (nephropathy); cochlear impair. Notations: A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans); BEI           |
| Regulatory reference   | ACGIH 2021  |
| <b>USA - ACGIH - Biological Exposure Indices</b>   |   |
| Local name   | ETHYLBENZENE  |
| BEI (BLV)  | 0.15 g/g Kreatinin Parameter: Sum of mandelic acid and phenylglyoxylic acid (with hydrolysis) - Medium: urine - Sampling time: End of shift - Notations: Ns |
| Regulatory reference   | ACGIH 2021  |
| <b>USA - OSHA - Occupational Exposure Limits</b>   |   |
| Local name   | Ethyl benzene   |
| OSHA PEL (TWA) [1]   | 435 mg/m <sup>3</sup>   |
| OSHA PEL (TWA) [2]   | 100 ppm   |
| Regulatory reference (US-OSHA)   | OSHA Annotated Table Z-1  |

# RAPTOR PROTECTIVE COATING - BLACK BASE

## Safety Data Sheet

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

### 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:

Avoid all unnecessary exposure. Gloves. Protective clothing. Safety glasses. Gas mask.

#### Materials for protective clothing:

Impermeable clothing

#### Hand protection:

Wear protective gloves.

#### Eye protection:

Chemical goggles or face shield. Chemical goggles or safety glasses. Safety glasses

#### Skin and body protection:

Wear suitable protective clothing

#### Respiratory protection:

Air-fed respiratory protective equipment should be worn when this product is sprayed. Where exposure through inhalation may occur from use, respiratory protection equipment is recommended

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



#### Other information:

Do not eat, drink or smoke during use.

## SECTION 9: Physical and chemical properties

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

|   |   |
|---|---|
| Physical state                              | : Liquid  |
| Appearance                                  | : Viscous. Liquid.                                      |
| Color                                       | : Black   |
| Odor  | : aromatic  |
| Odor threshold                              | : No data available                                     |
| pH  | : No data available                                     |
| Melting point                               | : Not applicable  |
| Freezing point                              | : No data available                                     |
| Boiling point                               | : > 35 °C   |
| Flash point                                 | : -17 °C Acetone  |
| Relative evaporation rate (butyl acetate=1) | : No data available                                     |
| Flammability (solid, gas)                   | : Highly flammable liquid and vapor.                    |
| Vapor pressure                              | : No data available                                     |
| Relative vapor density at 20 °C             | : No data available                                     |
| Relative density                            | : No data available                                     |
| Density                                     | : 1.125 (1.1 – 1.14) g/cm <sup>3</sup>                  |
| Solubility                                  | : insoluble in water. soluble in most organic solvents. |



# RAPTOR PROTECTIVE COATING - BLACK BASE

## Safety Data Sheet

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

|   |                     |
|---|---------------------|
| 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

|                            |                         |
|----------------------------|-------------------------|
| VOC content                | : 417 g/l               |
| As Packaged Regulatory VOC | : 310 g/l (2.6 lbs/gal) |
| As Packaged Actual VOC     | : 241 g/l (2.0 lbs/gal) |
| As Applied Regulatory VOC  | : 299 g/l (2.5 lbs/gal) |
| As Applied Actual VOC      | : 210 g/l (1.8 lbs/gal) |
| Percent Solids             | : 62.82 wt%             |
| Percent Solids             | : 50.64 vol %           |
| Volatiles                  | : 37.2 wt%              |
| Water Content              | : 0 wt%                 |
| Water Content              | : 0 vol %               |
| Exempt Compounds by weight | : 15.7 wt%              |
| Exempt Compounds by volume | : 22.3 vol %            |
| % EPA HAPS                 | : 9.7 wt%               |

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Highly flammable liquid and vapor.

### 10.2. Chemical stability

Highly flammable liquid and vapor. May form flammable/explosive vapor-air mixture.

### 10.3. Possibility of hazardous reactions

Not established.

### 10.4. Conditions to avoid

No flames, no sparks. Eliminate all sources of ignition. Direct sunlight. Extremely high or low temperatures. Open flame. Avoid contact with hot surfaces. Heat.

### 10.5. Incompatible materials

Strong acids. Strong bases.

### 10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide. May release flammable gases.

## 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 |

# RAPTOR PROTECTIVE COATING - BLACK BASE

## Safety Data Sheet

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

| <b>acetone (67-64-1)</b>  |   |
|---|---|
| LD50 oral rat   | 5800 mg/kg body weight Animal: rat, Animal sex: female  |
| LD50 dermal rabbit  | > 15800 mg/kg body weight (24 h, Rabbit, Male, Weight of evidence, Dermal, 14 day(s))   |
| 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  |
| <b>carbon black (1333-86-4)</b>   |   |
| 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))                             |
| <b>kieselguhr, soda ash flux calcined (68855-54-9)</b>  |   |
| LD50 oral rat   | > 2000 mg/kg body weight Animal: rat, Animal sex: female, Guideline: OECD Guideline 401 (Acute Oral Toxicity)                   |
| LC50 Inhalation - Rat   | > 2.6 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity)   |
| <b>n-butyl acetate (123-86-4)</b>   |   |
| LD50 oral rat   | 10760 – 12789 mg/kg body weight (Equivalent or similar to OECD 423, Rat, Male / female, Experimental value, Oral, 14 day(s))    |
| LD50 dermal rabbit  | > 14112 mg/kg body weight (Equivalent or similar to OECD 402, Rabbit, Male / female, Experimental value, Dermal, 14 day(s))     |
| LC50 Inhalation - Rat   | 23.4 mg/l (OECD 403: Acute Inhalation Toxicity, 4 h, Rat, Male / female, Inhalation (mixture of vapour and aerosol), 14 day(s)) |
| LC50 Inhalation - Rat [ppm]   | 390 ppm/4h  |
| ATE US (oral)   | 10760 mg/kg body weight   |
| ATE US (gases)  | 390 ppmV/4h   |
| ATE US (vapors)   | 23.4 mg/l/4h  |
| ATE US (dust, mist)   | 23.4 mg/l/4h  |
| <b>reaction mass of <math>\alpha</math>-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-<math>\omega</math>-hydroxypoly(oxyethylene) and <math>\alpha</math>-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-<math>\omega</math>-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyloxypoly(oxyethylene) (104810-48-2)</b> |   |
| LD50 oral rat   | > 5000 mg/kg (OECD Guideline No. 401 (equivalent to Annex V), limit test, rat, male/female)                                     |
| LD50 dermal rat   | > 2000 mg/kg (OECD Guideline No. 402 (equivalent to Annex V), limit test, rat, male/female)                                     |
| LC50 Inhalation - Rat   | 5800 mg/l (OECD Guideline 403, 14d, rat)  |
| ATE US (vapors)   | 5800 mg/l/4h  |
| ATE US (dust, mist)   | 5800 mg/l/4h  |
| <b>reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate (1065336-91-5)</b>  |   |
| LD50 oral rat   | 3230 mg/kg (OECD Guideline 423 (Acute Oral toxicity - Acute Toxic Class Method), rat, male/female)                              |
| LD50 dermal rat   | > 3170 mg/kg (OECD Guideline 402 (Acute Dermal Toxicity), read-across,  |
| ATE US (oral)   | 3230 mg/kg body weight  |

# RAPTOR PROTECTIVE COATING - BLACK BASE

## Safety Data Sheet

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

| <b>reaction mass of ethylbenzene, m-xylene and p-xylene</b> |  |
|---|--|
| LD50 oral rat   | 3523 mg/kg (EU Method B.1 (Acute Toxicity (Oral), rat, male)   |
| LD50 dermal rabbit  | 12126 mg/kg body weight Animal: rabbit, Animal sex: male   |
| LC50 Inhalation - Rat [ppm]                                 | 6350 ppm/4h (4 h, EU Method B.2 (Acute Toxicity (Inhalation)), rat, male, Inhalation, vapours)   |
| ATE US (oral)   | 3523 mg/kg body weight   |
| ATE US (dermal)   | 1100 mg/kg body weight   |
| ATE US (gases)  | 6350 ppmV/4h   |
| ATE US (vapors)   | 11 mg/l/4h   |
| ATE US (dust, mist)   | 1.5 mg/l/4h  |
| <b>Xylene (1330-20-7)</b>                                   |  |
| LD50 oral rat   | 3523 mg/kg body weight (Equivalent or similar to EU Method B.1: Acute Toxicity (Oral), Rat, Male, Experimental value, Oral, 14 day(s)) |
| LD50 dermal rat   | 12126 mg/kg (Non-GLP, read-across from supporting substance, single dermal dose under occlusion followed by observation for 14 days)   |
| LD50 dermal rabbit  | 12126 mg/kg body weight Animal: rabbit, Animal sex: male   |
| LC50 Inhalation - Rat [ppm]                                 | 6700 ppm/4h (EU Method B.2 (Acute Toxicity (Inhalation)), 4h, rat, male)   |
| ATE US (oral)   | 3523 mg/kg body weight   |
| ATE US (dermal)   | 1100 mg/kg body weight   |
| ATE US (gases)  | 6700 ppmV/4h   |
| ATE US (vapors)   | 11 mg/l/4h   |
| ATE US (dust, mist)   | 1.5 mg/l/4h  |
| <b>ethylbenzene (100-41-4)</b>                              |  |
| 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 (vapors)   | 17.8 mg/l/4h   |
| ATE US (dust, mist)   | 17.8 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.   |
| <b>carbon black (1333-86-4)</b>                             |  |
| IARC group  | 2B - Possibly carcinogenic to humans   |
| <b>reaction mass of ethylbenzene, m-xylene and p-xylene</b> |  |
| IARC group  | 2B - Possibly carcinogenic to humans   |

# RAPTOR PROTECTIVE COATING - BLACK BASE

## Safety Data Sheet

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

|   |  |
|---|--|
| <b>Xylene (1330-20-7)</b>                                   |  |
| IARC group  | 3 - Not classifiable   |
| <b>ethylbenzene (100-41-4)</b>                              |  |
| IARC group  | 2B - Possibly carcinogenic to humans   |
| Reproductive toxicity                                       | : Not classified   |
| <b>acetone (67-64-1)</b>                                    |  |
| LOAEL (animal/female, F0/P)                                 | 11298 mg/kg body weight Animal: mouse, Animal sex: female  |
| NOAEL (animal/male, F0/P)                                   | 900 mg/kg body weight Animal: rat, Animal sex: male, Remarks on results: other:Generation not specified (migrated information)   |
| STOT-single exposure  | : May cause drowsiness or dizziness.   |
| <b>acetone (67-64-1)</b>                                    |  |
| STOT-single exposure  | May cause drowsiness or dizziness.   |
| <b>n-butyl acetate (123-86-4)</b>                           |  |
| STOT-single exposure  | May cause drowsiness or dizziness.   |
| <b>reaction mass of ethylbenzene, m-xylene and p-xylene</b> |  |
| STOT-single exposure  | May cause respiratory irritation.  |
| <b>Xylene (1330-20-7)</b>                                   |  |
| STOT-single exposure  | May cause respiratory irritation.  |
| STOT-repeated exposure                                      | : May cause damage to organs through prolonged or repeated exposure.   |
| <b>kieselguhr, soda ash flux calcined (68855-54-9)</b>      |  |
| NOAEL (oral,rat,90 days)                                    | 3737.9 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.   |
| <b>reaction mass of ethylbenzene, m-xylene and p-xylene</b> |  |
| LOAEL (oral,rat,90 days)                                    | 150 mg/kg body weight Animal: rat, Animal sex: male, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents), Guideline: EPA OPP 82-1 (90-Day Oral Toxicity) |
| NOAEL (oral,rat,90 days)                                    | 150 mg/kg bodyweight/day ( OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents), female)   |
| STOT-repeated exposure                                      | May cause damage to organs through prolonged or repeated exposure.   |
| <b>Xylene (1330-20-7)</b>                                   |  |
| LOAEL (oral,rat,90 days)                                    | 150 mg/kg body weight Animal: rat, Animal sex: male, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents), Guideline: EPA OPP 82-1 (90-Day Oral Toxicity) |
| STOT-repeated exposure                                      | May cause damage to organs through prolonged or repeated exposure.   |
| <b>ethylbenzene (100-41-4)</b>                              |  |
| 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  |

# RAPTOR PROTECTIVE COATING - BLACK BASE

## Safety Data Sheet

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

|   |  |
|---|--|
| Potential Adverse human health effects and symptoms | : Based on available data, the classification criteria are not met.  |
| Symptoms/effects                                    | : Suspected of damaging fertility or the unborn child. Causes damage to organs. May cause drowsiness or dizziness. |
| Symptoms/effects after inhalation                   | : May cause an allergic skin reaction. May cause drowsiness or dizziness. May cause cancer by inhalation.          |
| Symptoms/effects after skin contact                 | : Irritation. May cause an allergic skin reaction.   |
| Symptoms/effects after eye contact                  | : Causes serious eye irritation. Eye irritation.   |

## SECTION 12: Ecological information

### 12.1. Toxicity

|                   |  |
|-------------------|--|
| Ecology - general | : Harmful to aquatic life with long lasting effects. |
| Ecology - water   | : Harmful to aquatic life with long lasting effects. |

|   |   |
|---|---|
| <b>acetone (67-64-1)</b>  |   |
| LC50 - Fish [1]   | 6210 – 8120 mg/l (Equivalent or similar to OECD 203, 96 h, Pimephales promelas, Flow-through system, Fresh water, Experimental value, Measured 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'  |
| <b>carbon black (1333-86-4)</b>   |   |
| 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 - Crustacea [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)   |
| <b>n-butyl acetate (123-86-4)</b>   |   |
| LC50 - Fish [1]   | 18 mg/l Test organisms (species): Pimephales promelas   |
| EC50 - Crustacea [1]  | 44 mg/l Test organisms (species): Daphnia sp.   |
| LC50 - Fish [2]   | 62 mg/l (Leuciscus idus, static system)   |
| ErC50 algae   | 397 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Read-across, GLP)                        |
| NOEC (chronic)  | 23 mg/l Test organisms (species): Daphnia magna Duration: '21 d'  |
| NOEC chronic crustacea  | 23 mg/l   |
| <b>reaction mass of <math>\alpha</math>-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-<math>\omega</math>-hydroxypoly(oxyethylene) and <math>\alpha</math>-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-<math>\omega</math>-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyloxypoly(oxyethylene) (104810-48-2)</b> |   |
| LC50 - Fish [1]   | 2.8 mg/l (96 h, Oncorhynchus mykiss, Static system, Fresh water, Experimental value, Nominal concentration)   |
| EC50 - Crustacea [1]  | 4 mg/l (48 h, Daphnia magna, Static system, Fresh water, Experimental value, Nominal concentration)   |
| ErC50 algae   | > 100 mg/l (72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, Nominal concentration)                                     |

# RAPTOR PROTECTIVE COATING - BLACK BASE

## Safety Data Sheet

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

| <b>reaction mass of ethylbenzene, m-xylene and p-xylene</b> |  |
|---|--|
| LC50 - Fish [1]   | 2.6 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)  |
| EC50 - Crustacea [1]  | > 3.4 mg/l Test organisms (species): Ceriodaphnia dubia  |
| NOEC chronic fish   | > 1.3 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)<br>Duration: '56 d'                                  |
| <b>Xylene (1330-20-7)</b>                                   |  |
| LC50 - Fish [1]   | 2.6 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)  |
| EC50 - Crustacea [1]  | > 3.4 mg/l Test organisms (species): Ceriodaphnia dubia  |
| ErC50 algae   | 4.36 mg/l (OECD 201: Alga, Growth Inhibition Test, 73 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, GLP) |
| NOEC chronic fish   | > 1.3 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)<br>Duration: '56 d'                                  |
| <b>ethylbenzene (100-41-4)</b>                              |  |
| LC50 - Fish [1]   | 5.1 mg/l Test organisms (species): Menidia menidia   |
| EC50 - Crustacea [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'   |
| <b>12.2. Persistence and degradability</b>                  |  |
| <b>RAPTOR PROTECTIVE COATING - BLACK BASE</b>               |  |
| Persistence and degradability                               | May cause long-term adverse effects in the environment.  |
| <b>acetone (67-64-1)</b>                                    |  |
| 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 <sub>2</sub> /g substance   |
| Chemical oxygen demand (COD)                                | 1.92 g O <sub>2</sub> /g substance   |
| ThOD  | 2.2 g O <sub>2</sub> /g substance  |
| <b>carbon black (1333-86-4)</b>                             |  |
| Persistence and degradability                               | Biodegradability in soil: not applicable. Biodegradability: not applicable.  |
| Chemical oxygen demand (COD)                                | Not applicable (inorganic)   |
| ThOD  | Not applicable (inorganic)   |
| <b>kieselguhr, soda ash flux calcined (68855-54-9)</b>      |  |
| Persistence and degradability                               | Biodegradability: not applicable.  |
| Chemical oxygen demand (COD)                                | Not applicable   |
| ThOD  | Not applicable   |
| BOD (% of ThOD)   | Not applicable   |
| <b>n-butyl acetate (123-86-4)</b>                           |  |
| Persistence and degradability                               | Readily biodegradable in water.  |

# RAPTOR PROTECTIVE COATING - BLACK BASE

## Safety Data Sheet

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

| <b>n-butyl acetate (123-86-4)</b> |  |
|-----------------------------------|--|
| ThOD                              | 2.21 g O <sub>2</sub> /g substance                         |
| BOD (% of ThOD)                   | 0.46   |
| <b>Xylene (1330-20-7)</b>         |  |
| Persistence and degradability     | Biodegradable in the soil. Readily biodegradable in water. |
| <b>ethylbenzene (100-41-4)</b>    |  |
| Persistence and degradability     | Biodegradable in the soil. Readily biodegradable in water. |
| Biochemical oxygen demand (BOD)   | 1.44 g O <sub>2</sub> /g substance                         |
| Chemical oxygen demand (COD)      | 2.1 g O <sub>2</sub> /g substance                          |
| ThOD                              | 3.17 g O <sub>2</sub> /g substance                         |

### 12.3. Bioaccumulative potential

| <b>RAPTOR PROTECTIVE COATING - BLACK BASE</b>   |   |
|---|---|
| Bioaccumulative potential   | Not established.  |
| <b>acetone (67-64-1)</b>  |   |
| Partition coefficient n-octanol/water (Log Pow)   | -0.23 (Test data)   |
| Bioaccumulative potential   | Not bioaccumulative.  |
| <b>carbon black (1333-86-4)</b>   |   |
| Bioaccumulative potential   | Not bioaccumulative.  |
| <b>kieselguhr, soda ash flux calcined (68855-54-9)</b>  |   |
| Bioaccumulative potential   | No test data of component(s) available.   |
| <b>n-butyl acetate (123-86-4)</b>   |   |
| Partition coefficient n-octanol/water (Log Pow)   | 2.3 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 25 °C) |
| Bioaccumulative potential   | Low potential for bioaccumulation (Log Kow < 4).  |
| <b>reaction mass of α-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-ω-hydroxypoly(oxyethylene) and α-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-ω-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyloxypoly(oxyethylene) (104810-48-2)</b> |   |
| BCF - Fish [1]  | 2658 – 3430 (502 h, Oncorhynchus mykiss, Flow-through system, Fresh water, Experimental value)  |
| Partition coefficient n-octanol/water (Log Pow)   | 4.6 (Experimental value, Equivalent or similar to OECD 117, 25 °C)                              |
| <b>Xylene (1330-20-7)</b>   |   |
| BCF - Fish [1]  | 7.2 – 25.9 (56 day(s), Oncorhynchus mykiss, Flow-through system, Fresh water, Read-across)      |
| Partition coefficient n-octanol/water (Log Pow)   | 3.2 (Read-across, 20 °C)  |
| Bioaccumulative potential   | Low potential for bioaccumulation (BCF < 500).  |
| <b>ethylbenzene (100-41-4)</b>  |   |
| 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)                           |

# RAPTOR PROTECTIVE COATING - BLACK BASE

## Safety Data Sheet

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

| ethylbenzene (100-41-4)   |  |
|---------------------------|--|
| Bioaccumulative potential | Low potential for bioaccumulation (BCF < 500). |

### 12.4. Mobility in soil

| acetone (67-64-1)  |  |
|--|--|
| Surface tension  | 23300 mN/m (20 °C)   |
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 0.374 – 0.988 (log Koc, SRC PCKOCWIN v2.0, Calculated value) |
| Ecology - soil   | Highly mobile 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. |

| n-butyl acetate (123-86-4)                                 |  |
|--|--|
| Surface tension  | 61.3 mN/m (20 °C, 0.1 %, OECD 115: Surface Tension of Aqueous Solutions) |
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 1.268 – 1.844 (log Koc, SRC PCKOCWIN v2.0, Calculated value)             |
| Ecology - soil   | Highly mobile in soil.   |

| Xylene (1330-20-7)   |   |
|--|---|
| Surface tension  | 28.01 – 29.76 mN/m (25 °C)  |
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 2.73 (log Koc, Equivalent or similar to OECD 121, Read-across)                                      |
| Ecology - soil   | Low potential for adsorption in soil. May be harmful to plant growth, blooming and fruit formation. |

| ethylbenzene (100-41-4)                                    |  |
|--|--|
| Surface tension  | 71.2 mN/m (23 °C, 0.058 g/l, EU Method A.5: Surface tension)   |
| Organic Carbon Normalized Adsorption Coefficient (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

Other information : Avoid release to the environment.

## 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.   |
| Product/Packaging disposal recommendations | : Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to Remove waste in accordance with local and/or national regulations. |
| Additional information                     | : Handle empty containers with care because residual vapors are flammable. Flammable vapors may accumulate in the container.  |
| Ecology - waste materials                  | : Avoid release to the environment.   |



# RAPTOR PROTECTIVE COATING - BLACK BASE

## Safety Data Sheet

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

### SECTION 14: Transport information

#### 14.1. UN number

DOT NA No : UN1263  
UN-No. (TDG) : UN1263  
UN-No. (IMDG) : 1263  
UN-No. (IATA) : 1263

#### 14.2. UN proper shipping name

Proper Shipping Name (DOT) : Paint  
Proper Shipping Name (TDG) : PAINT  
Proper Shipping Name (IMDG) : PAINT  
Proper Shipping Name (IATA) : Paint

#### 14.3. Transport hazard class(es)

##### DOT

Transport hazard class(es) (DOT) : 3  
Hazard labels (DOT) : 3

##### TDG

Transport hazard class(es) (TDG) : 3  
Hazard labels (TDG) : 3

##### IMDG

Transport hazard class(es) (IMDG) : 3  
Hazard labels (IMDG) : 3



##### IATA

Transport hazard class(es) (IATA) : 3  
Hazard labels (IATA) : 3



#### 14.4. Packing group

Packing group (DOT) : II  
Packing group (TDG) : II  
Packing group (IMDG) : II  
Packing group (IATA) : II

#### 14.5. Environmental hazards

Other information : No supplementary information available.

#### 14.6. Special precautions for user

##### DOT

UN-No.(DOT) : UN1263

# RAPTOR PROTECTIVE COATING - BLACK BASE

## Safety Data Sheet

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

DOT Special Provisions (49 CFR 172.102)

- : 149 - When transported as a limited quantity or a consumer commodity, the maximum net capacity specified in 173.150(b)(2) of this subchapter for inner packaging may be increased to 5 L (1.3 gallons).
- 367 - For the purposes of documentation and package marking: a. The proper shipping name "Paint related material" may be used for consignments of packages containing "Paint" and "Paint related material" in the same package; b. The proper shipping name "Paint related material, corrosive, flammable" may be used for consignments of packages containing "Paint, corrosive, flammable" and "Paint related material, corrosive, flammable" in the same package; c. The proper shipping name "Paint related material, flammable, corrosive" may be used for consignments of packages containing "Paint, flammable, corrosive" and "Paint related material, flammable, corrosive" in the same package; and d. The proper shipping name "Printing ink related material" may be used for consignments of packages containing "Printing ink" and "Printing ink related material" in the same package.
- 383 - Packages containing toy plastic or paper caps for toy pistols described as "UN0349, Articles, explosive, n.o.s. (Toy caps), 1.4S" or "NA0337, Toy caps, 1.4S" are not subject to the subpart E (labeling) requirements of this part when offered for transportation by motor vehicle, rail freight, cargo vessel, and cargo aircraft and, notwithstanding the packing method assigned in §173.62 of this subchapter, in conformance with the following conditions:
- B52 - Notwithstanding the provisions of 173.24b of this subchapter, non-reclosing pressure relief devices are authorized on DOT 57 portable tanks.
- B131 - When transported by highway, rail, or cargo vessel, waste Paint and Paint related material (UN1263; PG II and PG III), when in plastic or metal inner packagings of not more than 26.5 L (7 gallons), are excepted from the marking requirements in §172.301(a) and (c) and the labeling requirements in §172.400(a), when further packed in the following specification and non-specification bulk outer packagings and under the following conditions:
- a. Primary receptacles must conform to the general packaging requirements of subpart B of part 173 of this subchapter and may not leak. If they do leak, they must be overpacked in packagings conforming to the specification requirements of part 178 of this subchapter or in salvage packagings conforming to the requirements in §173.12 of this subchapter.
- b. Primary receptacles must be further packed in non-specification bulk outer packagings such as cubic yard boxes, plastic rigid-wall bulk containers, dump trailers, and roll-off containers. Bulk outer packagings must be liquid tight through design or by the use of lining materials.
- c. Primary receptacles may also be further packed in specification bulk outer packagings. Authorized specification bulk outer packagings are UN11G fiberboard intermediate bulk containers (IBC) and UN13H4 woven plastic, coated and with liner flexible intermediate bulk containers (FIBCs) meeting the Packing Group II performance level and lined with a plastic liner of at least 6 mil thickness.
- d. All inner packagings placed inside bulk outer packagings must be blocked and braced to prevent movement during transportation that could cause the container to open or fall over. Specification IBCs and FIBCs are to be secured to a pallet.
- IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized.
- T4 - 2.65 178.274(d)(2) Normal..... 178.275(d)(3)
- TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling =  $97 / 1 + a (tr - tf)$  Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling.
- TP8 - A portable tank having a minimum test pressure of 1.5 bar (150 kPa) may be used when the flash point of the hazardous material transported is greater than 0 C (32 F).
- TP28 - A portable tank having a minimum test pressure of 2.65 bar (265 kPa) may be used provided the calculated test pressure is 2.65 bar or less based on the MAWP of the hazardous material, as defined in 178.275 of this subchapter, where the test pressure is 1.5 times the MAWP.

DOT Packaging Exceptions (49 CFR 173.xxx)

: 150

# RAPTOR PROTECTIVE COATING - BLACK BASE

## Safety Data Sheet

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

DOT Packaging Non Bulk (49 CFR 173.xxx) : 173  
DOT Packaging Bulk (49 CFR 173.xxx) : 242  
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) : 5 L  
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) : 60 L  
DOT Vessel Stowage Location : B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded.

### TDG

UN-No. (TDG) : UN1263  
TDG Special Provisions : 59 - Substances that are listed by name in Schedule 1 must not be transported under this shipping name. Substances transported under this shipping name may contain not more than 20% nitrocellulose if the nitrocellulose contains not more than 12.6% nitrogen (by dry mass), 142 - The following shipping names may be used to meet the requirements of Part 3 (Documentation) and Part 4 (Dangerous Goods Safety Marks) when these dangerous goods are offered for transport in the same means of containment:  
(a) "PAINT RELATED MATERIAL" may be used for a means of containment containing both paint and paint related material;  
(b) "PAINT RELATED MATERIAL, CORROSIVE, FLAMMABLE" may be used for a means of containment containing both paint, corrosive, flammable, and paint related material, corrosive, flammable;  
(c) "PAINT RELATED MATERIAL, FLAMMABLE, CORROSIVE" may be used for a means of containment containing both paint, flammable, corrosive, and paint related material, flammable, corrosive; and  
(d) "PRINTING INK RELATED MATERIAL" may be used for a means of containment containing both printing ink and printing ink related material.  
Explosive Limit and Limited Quantity Index : 5 L  
Excepted quantities (TDG) : E2  
Passenger Carrying Road Vehicle or Passenger Carrying Railway Vehicle Index : 5 L  
Emergency Response Guide (ERG) Number : 128

### IMDG

Special provision (IMDG) : 163, 367  
Limited quantities (IMDG) : 5 L  
Excepted quantities (IMDG) : E2  
Packing instructions (IMDG) : P001  
Packing provisions (IMDG) : PP1  
IBC packing instructions (IMDG) : IBC02  
Tank instructions (IMDG) : T4  
Tank special provisions (IMDG) : TP1, TP8, TP28  
EmS-No. (Fire) : F-E - FIRE SCHEDULE Echo - NON-WATER-REACTIVE FLAMMABLE LIQUIDS  
EmS-No. (Spillage) : S-E - SPILLAGE SCHEDULE Echo - FLAMMABLE LIQUIDS, FLOATING ON WATER  
Stowage category (IMDG) : B  
Properties and observations (IMDG) : Miscibility with water depends upon the composition.

### IATA

PCA Excepted quantities (IATA) : E2  
PCA Limited quantities (IATA) : Y341  
PCA limited quantity max net quantity (IATA) : 1L  
PCA packing instructions (IATA) : 353  
PCA max net quantity (IATA) : 5L  
CAO packing instructions (IATA) : 364  
CAO max net quantity (IATA) : 60L  
Special provision (IATA) : A3, A72, A192

# RAPTOR PROTECTIVE COATING - BLACK BASE

## Safety Data Sheet

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

ERG code (IATA)

: 3L

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

Not applicable

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

Commercial status of components according to the United States Environmental Protection Agency's Toxic Substances Control Act (TSCA):

| Name   | CAS-No.      | Listing     | Commercial status | Flags      |
|--|--------------|-------------|-------------------|------------|
| acetone  | 67-64-1      | Present     | Active            |            |
| carbon black   | 1333-86-4    | Present     | Active            |            |
| kieselguhr, soda ash flux calcined   | 68855-54-9   | Present     | Active            |            |
| n-butyl acetate  | 123-86-4     | Present     | Active            |            |
| reaction mass of $\alpha$ -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl- $\omega$ -hydroxypoly(oxyethylene) and $\alpha$ -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl- $\omega$ -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyloxypoly(oxyethylene) | 104810-48-2  | Not present | -                 | FRI;PMN;XU |
| reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate   | 1065336-91-5 | Not present | -                 |            |
| reaction mass of ethylbenzene, m-xylene and p-xylene   |              | Present     | Active            |            |
| Xylene   | 1330-20-7    | Present     | Active            |            |
| ethylbenzene   | 100-41-4     | Present     | Active            |            |

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.

|              |                   |      |
|--------------|-------------------|------|
| Xylene       | CAS-No. 1330-20-7 | < 5% |
| ethylbenzene | CAS-No. 100-41-4  | < 5% |

#### acetone (67-64-1)

CERCLA RQ 5000 lb

#### n-butyl acetate (123-86-4)

CERCLA RQ 5000 lb

#### Xylene (1330-20-7)

Listed on EPA Hazardous Air Pollutant (HAPS)

CERCLA RQ 100 lb

# RAPTOR PROTECTIVE COATING - BLACK BASE

## Safety Data Sheet

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

### ethylbenzene (100-41-4)

Listed on EPA Hazardous Air Pollutant (HAPS)

CERCLA RQ

1000 lb

## 15.2. International regulations

### CANADA

#### acetone (67-64-1)

Listed on the Canadian DSL (Domestic Substances List)

#### carbon black (1333-86-4)

Listed on the Canadian DSL (Domestic Substances List)

#### kieselguhr, soda ash flux calcined (68855-54-9)

Listed on the Canadian DSL (Domestic Substances List)

#### n-butyl acetate (123-86-4)

Listed on the Canadian DSL (Domestic Substances List)

#### reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate (1065336-91-5)

Not listed on the Canadian DSL (Domestic Substances List)/NDSL (Non-Domestic Substances List)

#### reaction mass of ethylbenzene, m-xylene and p-xylene

Listed on the Canadian DSL (Domestic Substances List)

#### Xylene (1330-20-7)

Listed on the Canadian DSL (Domestic Substances List)

#### ethylbenzene (100-41-4)

Listed on the Canadian DSL (Domestic Substances List)

### EU-Regulations

No additional information available

### National regulations

#### acetone (67-64-1)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

#### carbon black (1333-86-4)

Listed on IARC (International Agency for Research on Cancer)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

#### kieselguhr, soda ash flux calcined (68855-54-9)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

# RAPTOR PROTECTIVE COATING - BLACK BASE

## Safety Data Sheet

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


### n-butyl acetate (123-86-4)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

### 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](http://www.P65Warnings.ca.gov).

| Component                                      | State or local regulations  |
|--|---|
| kieselguhr, soda ash flux calcined(68855-54-9) | U.S. - Pennsylvania - RTK (Right to Know) List  |
| n-butyl acetate(123-86-4)                      | 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 |
| Xylene(1330-20-7)                              | 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 |
| 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 |
| 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   |
| 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 |

## SECTION 16: Other information

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

Revision date : 07/14/2021

Other information : None.

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

NFPA fire hazard : 3 - Liquids and solids (including finely divided suspended solids) that can be ignited under almost all ambient temperature conditions.

# RAPTOR PROTECTIVE COATING - BLACK BASE

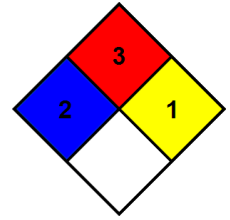
## Safety Data Sheet

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

---

NFPA reactivity

: 1 - Materials that in themselves are normally stable but can become unstable at elevated temperatures and pressures.



For professional use only.

The information contained within this Safety Data Sheet (SDS) is believed to be correct as of the date issued however it is subject to change from time to time. It does not purport to be all inclusive or exhaustive and shall only be used as a guide. U-POL makes no warranties, expressed or implied, including but not limited to, any implied warranty of fitness for a given purpose or usage. It is the Buyers responsibility to ensure the suitability of the products for their own use and to check the information is up to date. U-POL cannot be held responsible for the suitability of use for any of its products, considering the wide range of factors such as application, substrates and handling methods. Since these conditions of use are outside of our control, the company shall not be held liable for any damage resulting from handling or from contact with the product detailed. Moreover, addition of reducers, hardeners or other additives over and above U-POL's recommendations for use, may substantially alter the composition and hazards of the product. U-POL data sheets are available via the U-POL website at [WWW.U-POL.COM](http://WWW.U-POL.COM).