# SAFETY DATA SHEET

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

**1.1. Product identifier**

| | |
|---|---|
| **Trade name or designation of the mixture** | 6309 METALLIC BLACK - HIGH TEMP |
| **Registration number** | - |
| **Synonyms** | None. |
| **Product code** | 62H209 |
| **Issue date** | 22-January-2018 |
| **Version number** | 01 |

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

| | |
|---|---|
| **Identified uses** | Stove paint. |
| **Uses advised against** | None known. |

**1.3. Details of the supplier of the safety data sheet**

| | |
|---|---|
| **Company name** | FORREST Paint Co. DBA FORREST Technical Coatings |
| **Address** | 1011 McKinley Street<br>P.O. Box 22110 |
| **City** | Eugene |
| **State** | or |
| **Zip** | 97402 |
| **Country** | United States |
| **Telephone** | 1(541)342-1821 |
| **Contact person** | EHS Department |
| **Website** | www.forrestpaint.com |
| **e-mail** | info@forrestpaint.com |
| **Emergency phone number** | 1 (800) 424-9300 (CHEMTREC - Contract # 8730) USA & Canada<br>+1 703-527-3887 (CHEMTREC - Contract # 8730) Outside USA and Canada |

## SECTION 2: Hazards identification

**2.1. Classification of the substance or mixture**

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

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

**Classification** F;R11, Carc. Cat. 2;R45, Muta. Cat. 2;R46, Repr. Cat. 3;R63, Xn;R20/21-48/20, Xi;R38, R52/53

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

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

| | | |
|---|---|---|
| **Physical hazards** | | |
| Flammable liquids | Category 2 | H225 - Highly flammable liquid and vapour. |
| **Health hazards** | | |
| Acute toxicity, oral | Category 4 | H302 - Harmful if swallowed. |
| Acute toxicity, dermal | Category 4 | H312 - Harmful in contact with skin. |
| Acute toxicity, inhalation | Category 4 | H332 - Harmful if inhaled. |
| Skin corrosion/irritation | Category 2 | H315 - Causes skin irritation. |
| Serious eye damage/eye irritation | Category 1 | H318 - Causes serious eye damage. |
| Carcinogenicity | Category 2 | H351 - Suspected of causing cancer. |
| Reproductive toxicity (the unborn child) | Category 2 | H361d - Suspected of damaging the unborn child. |
| Specific target organ toxicity - single exposure | Category 3 narcotic effects | H336 - May cause drowsiness or dizziness. |

| | | |
|---|---|---|
| Specific target organ toxicity - repeated exposure | Category 2 (central nervous system) | H373 - May cause damage to organs (central nervous system) through prolonged or repeated exposure. |
| Aspiration hazard | Category 1 | H304 - May be fatal if swallowed and enters airways. |
| **Environmental hazards** | | |
| Hazardous to the aquatic environment, long-term aquatic hazard | Category 3 | H412 - Harmful to aquatic life with long lasting effects. |

**Hazard summary**

**Physical hazards** Highly flammable.

**Health hazards** May cause cancer. May cause heritable genetic damage. Also harmful by inhalation and in contact with skin. Irritating to skin. Also harmful: danger of serious damage to health by prolonged exposure through inhalation. Possible risk of harm to the unborn child. Occupational exposure to the substance or mixture may cause adverse health effects.

**Environmental hazards** Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Specific hazards** Prolonged exposure may cause chronic effects.

**Main symptoms** Aspiration may cause pulmonary oedema and pneumonitis. May cause drowsiness and dizziness. Narcosis. Headache. Nausea, vomiting. Behavioural changes. Decrease in motor functions. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Skin irritation. May cause redness and pain. Prolonged exposure may cause chronic effects.

## 2.2. Label elements

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

**Contains:** 2-Butoxyethanol, Carbon Black, ETHYL BENZENE, MANGANESE FERRITE SPINEL, Mineral spirits, N-Butyl Alcohol, Toluene, XYLENE

**Hazard pictograms**

**Signal word** Danger

**Hazard statements**

| | |
|---|---|
| H225 | Highly flammable liquid and vapour. |
| H302 | Harmful if swallowed. |
| H304 | May be fatal if swallowed and enters airways. |
| H312 | Harmful in contact with skin. |
| H315 | Causes skin irritation. |
| H318 | Causes serious eye damage. |
| H332 | Harmful if inhaled. |
| H336 | May cause drowsiness or dizziness. |
| H351 | Suspected of causing cancer. |
| H361d | Suspected of damaging the unborn child. |
| H373 | May cause damage to organs (central nervous system) through prolonged or repeated exposure. |
| H412 | Harmful to aquatic life with long lasting effects. |

**Precautionary statements**

**Prevention**

| | |
|---|---|
| P201 | Obtain special instructions before use. |
| P202 | Do not handle until all safety precautions have been read and understood. |
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P233 | Keep container tightly closed. |
| P240 | Ground/bond container and receiving equipment. |
| P241 | Use explosion-proof electrical/ventilating/lighting equipment. |
| P242 | Use only non-sparking tools. |
| P243 | Take precautionary measures against static discharge. |
| P260 | Do not breathe mist or vapour. |
| P264 | Wash thoroughly after handling. |
| P270 | Do not eat, drink or smoke when using this product. |
| P271 | Use only outdoors or in a well-ventilated area. |
| P273 | Avoid release to the environment. |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |

**Response**

| | |
|---|---|
| P301 + P310 | IF SWALLOWED: Immediately call a POISON CENTRE/doctor. |
| P330 | Rinse mouth. |
| P331 | Do NOT induce vomiting. |

| | |
|---|---|
| P303 + P361 + P353 | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. |
| P304 + P340 | IF INHALED: Remove person to fresh air and keep comfortable for breathing. |
| P305 + P351 + P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P310 | Immediately call a POISON CENTRE/doctor. |
| P332 + P313 | If skin irritation occurs: Get medical advice/attention. |
| P362 + P364 | Take off contaminated clothing and wash it before reuse. |
| P370 + P378 | In case of fire: Use appropriate media to extinguish. |

**Storage**

| | |
|---|---|
| P235 | Keep cool. |
| P403 + P233 | Store in a well-ventilated place. Keep container tightly closed. |
| P405 | Store locked up. |

**Disposal**

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

**Supplemental label information** 91,7 % of the mixture consists of component(s) of unknown acute oral toxicity. 71,91 % of the mixture consists of component(s) of unknown acute dermal toxicity. % of the mixture consists of component(s) of unknown acute inhalation toxicity. 96,42 % of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 20,12 % of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment.

**2.3. Other hazards** Not a PBT or vPvB substance or mixture.

## SECTION 3: Composition/information on ingredients

**3.2. Mixtures**

**General information**

| Chemical name | % | CAS-No. / EC No. | REACH Registration No. | INDEX No. | Notes |
|---|---|---|---|---|---|
| Toluene | 40 - < 50 | 108-88-3<br>203-625-9 | - | 601-021-00-3 | # |
| **Classification:** **DSD:** F;R11, Repr. Cat. 3;R63, Xn;R65-48/20, Xi;R38, R67 | | | | | |
| **CLP:** Flam. Liq. 2;H225, Asp. Tox. 1;H304, Skin Irrit. 2;H315, STOT SE 3;H336, Repr. 2;H361d, STOT RE 2;H373, Aquatic Chronic 3;H412 | | | | | |
| XYLENE | 20 - < 30 | 1330-20-7<br>215-535-7 | - | 601-022-00-9 | # |
| **Classification:** **DSD:** R10, Xn;R20/21, Xi;R38 | | | | | C |
| **CLP:** Flam. Liq. 3;H226, Acute Tox. 4;H312, Skin Irrit. 2;H315, Acute Tox. 4;H332, Aquatic Chronic 3;H412 | | | | | C |
| MANGANESE FERRITE SPINEL | 3 - < 5 | 75864-23-2<br>- | - | - | # |
| **Classification:** **DSD:** - | | | | | |
| **CLP:** STOT RE 2;H373 | | | | | |
| N-Butyl Alcohol | 3 - < 5 | 71-36-3<br>200-751-6 | - | 603-004-00-6 | |
| **Classification:** **DSD:** R10, Xn;R22, Xi;R37/38-41, R67 | | | | | |
| **CLP:** Flam. Liq. 3;H226, Acute Tox. 4;H302, Skin Irrit. 2;H315, Eye Dam. 1;H318, STOT SE 3;H335, STOT SE 3;H336, Aquatic Chronic 3;H412 | | | | | |
| 2-Butoxyethanol | 1 - < 3 | 111-76-2<br>203-905-0 | - | 603-014-00-0 | # |
| **Classification:** **DSD:** Xn;R20/21/22, Xi;R36/38 | | | | | |
| **CLP:** Acute Tox. 4;H302, Acute Tox. 4;H312, Eye Irrit. 2;H319, Acute Tox. 4;H332 | | | | | |
| Copper chromite black spinel | 1 - < 3 | 68186-91-4<br>269-053-7 | - | - | # |
| **Classification:** **DSD:** - | | | | | |
| **CLP:** - | | | | | |
| ETHYL BENZENE | 1 - < 3 | 100-41-4<br>202-849-4 | - | 601-023-00-4 | # |
| **Classification:** **DSD:** F;R11, Xn;R20-65-48/20 | | | | | |
| **CLP:** Flam. Liq. 2;H225, Asp. Tox. 1;H304, Acute Tox. 4;H332, Carc. 2;H351, STOT RE 2;H373, Aquatic Chronic 3;H412 | | | | | |

| Chemical name | % | CAS-No. / EC No. | REACH Registration No. | INDEX No. | Notes |
|---|---|---|---|---|---|
| Mineral spirits | 1 - < 3 | 8052-41-3<br>232-489-3 | - | 649-345-00-4 | |
| **Classification:** **DSD:** Carc. Cat. 2;R45, Xn;R65-48/20 | | | | | P |
| **CLP:** Flam. Liq. 3;H226, Asp. Tox. 1;H304, STOT RE 1;H372 | | | | | P |
| Aluminium | < 1 | 7429-90-5<br>231-072-3 | - | 013-002-00-1 | |
| **Classification:** **DSD:** F;R11-R15-R17 | | | | | |
| **CLP:** Flam. Sol. 1;H228, Pyr. Sol. 1;H250, Water-React. 2;H261, Aquatic Acute 1;H400, Aquatic Chronic 1;H410 | | | | | T |
| Carbon Black | < 1 | 1333-86-4<br>215-609-9 | - | - | |
| **Classification:** **DSD:** - | | | | | |
| **CLP:** Carc. 2;H351 | | | | | |
| Other components below reportable levels | 10 - < 20 | | | | |

**List of abbreviations and symbols that may be used above**

DSD: Directive 67/548/EEC.
CLP: Regulation No. 1272/2008.
**#**: This substance has been assigned Union workplace exposure limit(s).
M: M-factor
PBT: persistent, bioaccumulative and toxic substance.
vPvB: very persistent and very bioaccumulative substance.
All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

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

## SECTION 4: First aid measures

**General information** Take off all contaminated clothing immediately. IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse.

**4.1. Description of first aid measures**

**Inhalation** Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Call a POISON CENTRE or doctor/physician if you feel unwell.

**Skin contact** Take off immediately all contaminated clothing. Rinse skin with water/shower. Get medical advice/attention if you feel unwell. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

**Eye contact** Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.

**Ingestion** Call a physician or poison control centre immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

**4.2. Most important symptoms and effects, both acute and delayed** Aspiration may cause pulmonary oedema and pneumonitis. May cause drowsiness and dizziness. Narcosis. Headache. Nausea, vomiting. Behavioural changes. Decrease in motor functions. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Skin irritation. May cause redness and pain. Prolonged exposure may cause chronic effects.

**4.3. Indication of any immediate medical attention and special treatment needed** Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

## SECTION 5: Firefighting measures

**General fire hazards** Highly flammable liquid and vapour.

**5.1. Extinguishing media**

**Suitable extinguishing media** Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

**Unsuitable extinguishing media** Do not use water jet as an extinguisher, as this will spread the fire.

**5.2. Special hazards arising from the substance or mixture** Vapours may form explosive mixtures with air. Vapours may travel considerable distance to a source of ignition and flash back. During fire, gases hazardous to health may be formed.

**5.3. Advice for firefighters**

| | |
|---|---|
| **Special protective equipment for firefighters** | Self-contained breathing apparatus and full protective clothing must be worn in case of fire. |
| **Special fire fighting procedures** | In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk. |
| **Specific methods** | Use standard firefighting procedures and consider the hazards of other involved materials. |

## SECTION 6: Accidental release measures

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

| | |
|---|---|
| **For non-emergency personnel** | Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapour. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS. |
| **For emergency responders** | Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during clean-up. Use personal protection recommended in Section 8 of the SDS. |
| **6.2. Environmental precautions** | Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. |
| **6.3. Methods and material for containment and cleaning up** | Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil etc) away from spilled material. Take precautionary measures against static discharge. Use only non-sparking tools. Prevent product from entering drains.<br><br>Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.<br><br>Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.<br><br>Never return spills to original containers for re-use. Put material in suitable, covered, labeled containers. |
| **6.4. Reference to other sections** | For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS. |

## SECTION 7: Handling and storage

| | |
|---|---|
| **7.1. Precautions for safe handling** | Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Explosion-proof general and local exhaust ventilation. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Do not breathe mist or vapour. Do not get in eyes, on skin, or on clothing. Do not taste or swallow. Avoid prolonged exposure. When using, do not eat, drink or smoke. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Wash contaminated clothing before reuse. Observe good industrial hygiene practices. |
| **7.2. Conditions for safe storage, including any incompatibilities** | Store locked up. Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in a cool, dry place out of direct sunlight. Store in original tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS). |
| **7.3. Specific end use(s)** | Not available. |

## SECTION 8: Exposure controls/personal protection

**8.1. Control parameters**

**Occupational exposure limits**

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

| Components | Type | Value | Form |
|---|---|---|---|
| 2-Butoxyethanol (CAS 111-76-2) | STEL | 246 mg/m3 | |
| | | 50 ppm | |
| | TWA | 98 mg/m3 | |
| | | 20 ppm | |
| Aluminium (CAS 7429-90-5) | STEL | 3 mg/m3 | Fume. |
| | | 10 mg/m3 | Dust. |

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

| Components | Type | Value | Form |
|---|---|---|---|
| | TWA | 3 mg/m3 | Dust. |
| | | 1 mg/m3 | Fume. |
| Copper chromite black spinel (CAS 68186-91-4) | TWA | 0,5 mg/m3 | |
| ETHYL BENZENE (CAS 100-41-4) | STEL | 884 mg/m3 | |
| | | 200 ppm | |
| | TWA | 442 mg/m3 | |
| | | 100 ppm | |
| Mineral spirits (CAS 8052-41-3) | STEL | 1000 mg/m3 | |
| | TWA | 700 mg/m3 | |
| N-Butyl Alcohol (CAS 71-36-3) | STEL | 200 mg/m3 | |
| | | 66 ppm | |
| | TWA | 100 mg/m3 | |
| | | 33 ppm | |
| Toluene (CAS 108-88-3) | STEL | 384 mg/m3 | |
| | | 100 ppm | |
| | TWA | 192 mg/m3 | |
| | | 50 ppm | |
| XYLENE (CAS 1330-20-7) | STEL | 442 mg/m3 | |
| | | 100 ppm | |
| | TWA | 221 mg/m3 | |
| | | 50 ppm | |

**EU. Indicative Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU**

| Components | Type | Value | Form |
|---|---|---|---|
| 2-Butoxyethanol (CAS 111-76-2) | STEL | 246 mg/m3 | |
| | | 50 ppm | |
| | TWA | 98 mg/m3 | |
| | | 20 ppm | |
| Copper chromite black spinel (CAS 68186-91-4) | TWA | 2 mg/m3 | |
| ETHYL BENZENE (CAS 100-41-4) | STEL | 884 mg/m3 | |
| | | 200 ppm | |
| | TWA | 442 mg/m3 | |
| | | 100 ppm | |
| MANGANESE FERRITE SPINEL (CAS 75864-23-2) | TWA | 0,2 mg/m3 | Inhalable fraction. |
| | | 0,05 mg/m3 | Respirable fraction. |
| Toluene (CAS 108-88-3) | STEL | 384 mg/m3 | |
| | | 100 ppm | |
| | TWA | 192 mg/m3 | |
| | | 50 ppm | |
| XYLENE (CAS 1330-20-7) | STEL | 442 mg/m3 | |
| | | 100 ppm | |
| | TWA | 221 mg/m3 | |
| | | 50 ppm | |

**Biological limit values** No biological exposure limits noted for the ingredient(s).

**Recommended monitoring procedures** Follow standard monitoring procedures.

**Derived no effect levels (DNELs)** Not available.

**Predicted no effect concentrations (PNECs)** Not available.

**Exposure guidelines**

**Romania OELs: Skin designation**

2-Butoxyethanol (CAS 111-76-2) Can be absorbed through the skin.

| | |
|---|---|
| ETHYL BENZENE (CAS 100-41-4) | Can be absorbed through the skin. |
| Toluene (CAS 108-88-3) | Can be absorbed through the skin. |
| XYLENE (CAS 1330-20-7) | Can be absorbed through the skin. |

**8.2. Exposure controls**

**Appropriate engineering controls** Explosion-proof general and local exhaust ventilation. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station. Eye wash fountain and emergency showers are recommended.

**Individual protection measures, such as personal protective equipment**

**General information** Use personal protective equipment as required. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.

**Eye/face protection** Chemical respirator with organic vapour cartridge and full facepiece.

**Skin protection**

**- Hand protection** Wear appropriate chemical resistant gloves.

**- Other** Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

**Respiratory protection** Chemical respirator with organic vapour cartridge and full facepiece.

**Thermal hazards** Wear appropriate thermal protective clothing, when necessary.

**Hygiene measures** Observe any medical surveillance requirements. When using do not smoke. Keep away from food and drink. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

**Environmental exposure controls** Inform appropriate managerial or supervisory personnel of all environmental releases.

## SECTION 9: Physical and chemical properties

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

**Appearance**

**Physical state** Liquid.

**Form** Liquid.

**Colour** Black Metallic.

**Odour** Solvent.

**Odour threshold** Not available.

**pH** Not available.

**Melting point/freezing point** Not available.

**Initial boiling point and boiling range** 110,6 °C (231,08 °F) estimated

**Flash point** 4,4 °C (39,9 °F)

**Evaporation rate** Not available.

**Flammability (solid, gas)** Not applicable.

**Upper/lower flammability or explosive limits**

**Flammability limit - lower (%)** 1 % estimated

**Flammability limit - upper (%)** 7 % estimated

**Vapour pressure** 23,95 hPa estimated

**Vapour density** Not available.

**Relative density** Not available.

**Solubility(ies)**

**Solubility (water)** Not available.

**Partition coefficient (n-octanol/water)** Not available.

**Auto-ignition temperature** 260 °C (500 °F) estimated

**Decomposition temperature** Not available.

**Viscosity** Not available.

**Explosive properties** Not explosive.

| | |
|---|---|
| **Oxidising properties** | Not oxidising. |

**9.2. Other information**

| | |
|---|---|
| **Density** | 7,96 lb/gal |
| **Miscible (water)** | 0 % |
| **Percent volatile** | 80,84 %w/w |
| **Specific gravity** | 0,96 |
| **VOC** | 770,74 g/l COATING<br>770,74 g/l Material |

## SECTION 10: Stability and reactivity

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

## SECTION 11: Toxicological information

**General information** Occupational exposure to the substance or mixture may cause adverse effects.

**Information on likely routes of exposure**

| | |
|---|---|
| **Inhalation** | Harmful if inhaled. May cause damage to organs through prolonged or repeated exposure by inhalation. May cause drowsiness and dizziness. Headache. Nausea, vomiting. |
| **Skin contact** | Harmful in contact with skin. Causes skin irritation.<br><br>2-Butoxy ethanol may be absorbed through the skin in toxic amounts if contact is repeated and prolonged. These effects have not been observed in humans. |
| **Eye contact** | Causes serious eye damage. |
| **Ingestion** | Harmful if swallowed. Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious chemical pneumonia. |
| **Symptoms** | Aspiration may cause pulmonary oedema and pneumonitis. May cause drowsiness and dizziness. Narcosis. Headache. Nausea, vomiting. Behavioural changes. Decrease in motor functions. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Skin irritation. May cause redness and pain. |

**11.1. Information on toxicological effects**

| | |
|---|---|
| **Acute toxicity** | May be fatal if swallowed and enters airways. Harmful if inhaled. Harmful in contact with skin. |
| **Skin corrosion/irritation** | Causes skin irritation. |
| **Serious eye damage/eye irritation** | Causes serious eye damage. |
| **Respiratory sensitisation** | Due to partial or complete lack of data the classification is not possible. |
| **Skin sensitisation** | Due to partial or complete lack of data the classification is not possible. |
| **Germ cell mutagenicity** | Due to partial or complete lack of data the classification is not possible. |
| **Carcinogenicity** | Suspected of causing cancer. |

**IARC Monographs. Overall Evaluation of Carcinogenicity**

| | |
|---|---|
| 2-Butoxyethanol (CAS 111-76-2) | 3 Not classifiable as to carcinogenicity to humans. |
| Carbon Black (CAS 1333-86-4) | 2B Possibly carcinogenic to humans. |
| Copper chromite black spinel (CAS 68186-91-4) | 3 Not classifiable as to carcinogenicity to humans. |
| ETHYL BENZENE (CAS 100-41-4) | 2B Possibly carcinogenic to humans. |
| Mineral spirits (CAS 8052-41-3) | 3 Not classifiable as to carcinogenicity to humans. |
| Toluene (CAS 108-88-3) | 3 Not classifiable as to carcinogenicity to humans. |
| XYLENE (CAS 1330-20-7) | 3 Not classifiable as to carcinogenicity to humans. |

| | |
|---|---|
| **Reproductive toxicity** | Components in this product have been shown to cause birth defects and reproductive disorders in laboratory animals. Suspected of damaging the unborn child. |
| **Specific target organ toxicity - single exposure** | May cause drowsiness and dizziness. |
| **Specific target organ toxicity - repeated exposure** | May cause damage to organs (central nervous system) through prolonged or repeated exposure. |

**Aspiration hazard** May be fatal if swallowed and enters airways.

**Mixture versus substance information** No information available.

**Other information** Not available.

## SECTION 12: Ecological information

**12.1. Toxicity** Harmful to aquatic life with long lasting effects. Based on available data, the classification criteria are not met for hazardous to the aquatic environment, acute hazard.

| Components | | Species | Test results |
|---|---|---|---|
| 2-Butoxyethanol (CAS 111-76-2) | | | |
| **Aquatic** | | | |
| Fish | LC50 | Inland silverside (Menidia beryllina) | 1250 mg/l, 96 hours |
| Aluminium (CAS 7429-90-5) | | | |
| **Aquatic** | | | |
| Fish | LC50 | Rainbow trout,donaldson trout (Oncorhynchus mykiss) | 0,16 mg/l, 96 hours |
| ETHYL BENZENE (CAS 100-41-4) | | | |
| **Aquatic** | | | |
| Crustacea | EC50 | Water flea (Daphnia magna) | 1,37 - 4,4 mg/l, 48 hours |
| Fish | LC50 | Bluegill (Lepomis macrochirus) | 7,711 - 9,591 mg/l, 96 hours |
| | | Fathead minnow (Pimephales promelas) | 11,5 - 12,7 mg/l, 96 hours |
| N-Butyl Alcohol (CAS 71-36-3) | | | |
| **Aquatic** | | | |
| Crustacea | EC50 | Water flea (Daphnia magna) | 1897 - 2072 mg/l, 48 hours |
| Fish | LC50 | Bluegill (Lepomis macrochirus) | 100 - 500 mg/l, 96 hours |
| Toluene (CAS 108-88-3) | | | |
| **Aquatic** | | | |
| Crustacea | EC50 | Water flea (Daphnia magna) | 19,6 mg/l, 48 hours |
| Fish | LC50 | Rainbow trout,donaldson trout (Oncorhynchus mykiss) | 14,1 - 17,16 mg/l, 96 hours |
| XYLENE (CAS 1330-20-7) | | | |
| **Aquatic** | | | |
| Fish | LC50 | Bluegill (Lepomis macrochirus) | 10,464 - 16,114 mg/l, 96 hours |
| | | | 7,711 - 9,591 mg/l, 96 hours |

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

**12.2. Persistence and degradability**

**12.3. Bioaccumulative potential**

**Partition coefficient n-octanol/water (log Kow)**

| | |
|---|---|
| 2-Butoxyethanol | 0,83 |
| ETHYL BENZENE | 3,15 |
| Mineral spirits | 3,16 - 7,15 |
| N-Butyl Alcohol | 0,88 |
| Toluene | 2,73 |
| XYLENE | 3,12 - 3,2 |

**Bioconcentration factor (BCF)** Not available.

**12.4. Mobility in soil** No data available.

**12.5. Results of PBT and vPvB assessment** Not a PBT or vPvB substance or mixture.

Not a PBT or vPvB substance or mixture.

**12.6. Other adverse effects** The product contains volatile organic compounds which have a photochemical ozone creation potential.

## SECTION 13: Disposal considerations

**13.1. Waste treatment methods**

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

## SECTION 14: Transport information

**ADR**

| | |
|---|---|
| **14.1. UN number** | UN1263 |
| **14.2. UN proper shipping name** | Paint |
| **14.3. Transport hazard class(es)** | |
| **Class** | 3 |
| **Subsidiary risk** | - |
| **Label(s)** | 3 |
| **Hazard No. (ADR)** | 33 |
| **Tunnel restriction code** | D/E |
| **14.4. Packing group** | II |
| **14.5. Environmental hazards** | No. |
| **14.6. Special precautions for user** | Read safety instructions, SDS and emergency procedures before handling. |

**RID**

| | |
|---|---|
| **14.1. UN number** | UN1263 |
| **14.2. UN proper shipping name** | Paint |
| **14.3. Transport hazard class(es)** | |
| **Class** | 3 |
| **Subsidiary risk** | - |
| **Label(s)** | 3 |
| **14.4. Packing group** | II |
| **14.5. Environmental hazards** | No. |
| **14.6. Special precautions for user** | Read safety instructions, SDS and emergency procedures before handling. |

**ADN**

| | |
|---|---|
| **14.1. UN number** | UN1263 |
| **14.2. UN proper shipping name** | Paint |
| **14.3. Transport hazard class(es)** | |
| **Class** | 3 |
| **Subsidiary risk** | - |
| **Label(s)** | 3 |
| **14.4. Packing group** | II |
| **14.5. Environmental hazards** | No. |
| **14.6. Special precautions for user** | Read safety instructions, SDS and emergency procedures before handling. |

**IATA**

| | |
|---|---|
| **14.1. UN number** | UN1263 |
| **14.2. UN proper shipping name** | Paint |
| **14.3. Transport hazard class(es)** | |
| **Class** | 3 |
| **Subsidiary risk** | - |
| **Label(s)** | 3 |
| **14.4. Packing group** | II |
| **14.5. Environmental hazards** | No. |
| **ERG Code** | 3H |
| **14.6. Special precautions for user** | Read safety instructions, SDS and emergency procedures before handling. |

**Other information**

| | |
|---|---|
| **Passenger and cargo aircraft** | Allowed with restrictions. |
| **Cargo aircraft only** | Allowed with restrictions. |

**IMDG**

| | |
|---|---|
| **14.1. UN number** | UN1263 |
| **14.2. UN proper shipping name** | Paint |
| **14.3. Transport hazard class(es)** | |
| **Class** | 3 |
| **Subsidiary risk** | - |
| **Label(s)** | 3 |
| **14.4. Packing group** | II |
| **14.5. Environmental hazards** | |
| **Marine pollutant** | No. |
| **EmS** | F-E,S-E |
| **14.6. Special precautions for user** | Read safety instructions, SDS and emergency procedures before handling. |
| **14.7. Transport in bulk according to Annex II of Marpol and the IBC Code** | Not established. |

**ADN; ADR; IATA; IMDG; RID**


## SECTION 15: Regulatory information

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

**EU regulations**

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

Not listed.

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

Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended**

Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended**

Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended**

Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended**

Not listed.

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

Not listed.

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

Not listed.

**Authorisations**

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

Not listed.

**Restrictions on use**

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

Aluminium (CAS 7429-90-5)
ETHYL BENZENE (CAS 100-41-4)
Toluene (CAS 108-88-3)
Mineral spirits (CAS 8052-41-3)

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

Mineral spirits (CAS 8052-41-3)

**Other EU regulations**

**Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended**

Aluminium (CAS 7429-90-5)
ETHYL BENZENE (CAS 100-41-4)
N-Butyl Alcohol (CAS 71-36-3)
Toluene (CAS 108-88-3)
XYLENE (CAS 1330-20-7)

**Other regulations** Pregnant women should not work with the product, if there is the least risk of exposure. The product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP Regulation) as amended. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006, as amended.

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

**15.2. Chemical safety assessment** No Chemical Safety Assessment has been carried out.

## SECTION 16: Other information

**List of abbreviations** Not available.

**References** Not available.

**Information on evaluation method leading to the classification of mixture** The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.

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

R10 Flammable.
R11 Highly flammable.
R15 Contact with water liberates extremely flammable gases.
R17 Spontaneously flammable in air.
R20 Harmful by inhalation.
R20/21 Harmful by inhalation and in contact with skin.
R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.
R21/22 Harmful in contact with skin and if swallowed.
R22 Harmful if swallowed.
R36/38 Irritating to eyes and skin.
R37/38 Irritating to respiratory system and skin.
R38 Irritating to skin.
R41 Risk of serious damage to eyes.
R45 May cause cancer.
R46 May cause heritable genetic damage.
R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.
R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R63 Possible risk of harm to the unborn child.
R65 Harmful: may cause lung damage if swallowed.
R67 Vapours may cause drowsiness and dizziness.
H225 Highly flammable liquid and vapour.
H226 Flammable liquid and vapour.
H228 Flammable solid.
H250 Catches fire spontaneously if exposed to air.
H261 In contact with water releases flammable gases.
H302 Harmful if swallowed.
H304 May be fatal if swallowed and enters airways.
H312 Harmful in contact with skin.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
H351 Suspected of causing cancer by inhalation.
H351 Suspected of causing cancer.
H361d Suspected of damaging the unborn child.
H372 Causes damage to organs through prolonged or repeated exposure.

| | |
|---|---|
| | H373 May cause damage to organs through prolonged or repeated exposure.<br>H400 Very toxic to aquatic life.<br>H410 Very toxic to aquatic life with long lasting effects.<br>H412 Harmful to aquatic life with long lasting effects. |
| **Revision information** | Product and Company Identification: Product and Company Identification<br>Physical & Chemical Properties: Multiple Properties<br>Transport Information: Product Shipping Name/Packing Group<br>Material Attributes & Uses; Experimental Data: Material Attributes<br>GHS: Classification |
| **Training information** | Follow training instructions when handling this material. |
| **Disclaimer** | The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create any warranty, expressed or implied. It is the responsibility of the user to determine the applicability of this information and the suitability of the material or product for any particular purpose. |