# SAFETY DATA SHEET

## 1. Identification

| | |
|---|---|
| **Product identifier** | **Ideapaint PRO THIS, Part B** |
| **Other means of identification** | Not available. |
| **Recommended use** | Dry erase coating. |
| **Recommended restrictions** | None known. |

**Manufacturer/Importer/Supplier/Distributor information**

| | |
|---|---|
| **Manufacturer/Supplier** | IdeaPaint<br>40 Broad Street Boston, MA 02109 |
| **Telephone number** | 617.714.1050 |
| **e-mail** | marty@ideapaint.com |
| **Emergency** | +1.866.519.4752 (US, Canada, Mexico)<br>+1-760-476-3962 (US, Canada, Mexico)<br>Access Code: 333641 |

## 2. Hazard(s) identification

| | | |
|---|---|---|
| **Physical hazards** | Flammable liquids | Category 3 |
| **Health hazards** | Acute toxicity, inhalation | Category 4 |
| | Skin corrosion/irritation | Category 2 |
| | Serious eye damage/eye irritation | Category 2A |
| | Sensitization, respiratory | Category 1 |
| | Sensitization, skin | Category 1 |
| | Carcinogenicity | Category 2 |

**OSHA defined hazards** Not classified.

**Label elements**

**Signal word** Danger

**Hazard statement** Flammable liquid and vapor. Harmful if inhaled. Causes skin irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. Suspected of causing cancer. Causes serious eye irritation.

**Precautionary statement**

**Prevention** Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing mist/vapors/spray. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Ground/bond container and receiving equipment. Wash hands thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. In case of inadequate ventilation wear respiratory protection. Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed out of the workplace.

**Response** If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell. 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 experiencing respiratory symptoms: Call a poison center/doctor. If eye irritation persists: Get medical advice/attention.

**Storage** Store in a well-ventilated place. Keep cool. Store locked up.

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

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|---|---|
| **Hazard(s) not otherwise classified (HNOC)** | Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment. |

## 3. Composition/information on ingredients

**Mixtures**

| Chemical name | CAS number | % |
|---|---|---|
| 1,6-Diisocyanatohexane homopolymer | 28182-81-2 | 60-100 |
| n-Butyl acetate | 123-86-4 | 10-20 |
| Xylene | 1330-20-7 | 7-13 |
| Ethylbenzene | 100-41-4 | <2 |
| Hexamethylene-1, 6-diisocyanate | 822-06-0 | <0.6 |

| | |
|---|---|
| **Composition comments** | All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume. |

## 4. First-aid measures

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|---|---|
| **Inhalation** | Move injured person into fresh air and keep person calm under observation. Get medical attention immediately. |
| **Skin contact** | Remove contaminated clothing immediately and wash skin with soap and water. In case of eczema or other skin disorders: Seek medical attention and take along these instructions. |
| **Eye contact** | Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyelids wide apart. Get medical attention if irritation develops and persists. |
| **Ingestion** | If swallowed, rinse mouth with water (only if the person is conscious). Do not induce vomiting. If vomiting occurs, the head should be kept low so that stomach vomit doesn't enter the lungs. Get medical attention if any discomfort continues. |
| **Most important symptoms/effects, acute and delayed** | Direct contact with skin and eyes may cause irritation. Harmful if inhaled. May cause allergic respiratory reaction. May cause an allergic skin reaction. |
| **Indication of immediate medical attention and special treatment needed** | Treat symptomatically. |
| **General information** | Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. |

## 5. Fire-fighting measures

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|---|---|
| **Suitable extinguishing media** | Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. |
| **Unsuitable extinguishing media** | Do not use water jet as an extinguisher, as this will spread the fire. |
| **Specific hazards arising from the chemical** | Fire or high temperatures create: Nitrogen oxides. Hydrogen cyanide. Carbon oxides. Isocyanate vapors.<br>Solvent vapors may form explosive mixtures with air. |
| **Special protective equipment and precautions for firefighters** | Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Selection of respiratory protection for firefighting: follow the general fire precautions indicated in the workplace. |
| **Fire-fighting equipment/instructions** | Cool containers exposed to heat with water spray and remove container, if no risk is involved. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply. Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Selection of respiratory protection for firefighting: follow the general fire precautions indicated in the workplace. |
| **Specific methods** | Use water spray to cool unopened containers. |
| **General fire hazards** | The product is flammable, and heating may generate vapors which may form explosive vapor/air mixtures. |

## 6. Accidental release measures

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|---|---|
| **Personal precautions, protective equipment and emergency procedures** | Avoid contact with skin and eyes. Eliminate all sources of ignition. Ensure adequate ventilation. Do not breathe vapor. Do not taste or swallow. Wear suitable protective clothing. |

| | |
|---|---|
| **Methods and materials for containment and cleaning up** | Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Ventilate the area. Dike the spilled material, where this is possible. Absorb spillage with non-combustible, absorbent material. |
| **Environmental precautions** | Do not discharge into drains, water courses or onto the ground. |

## 7. Handling and storage

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|---|---|
| **Precautions for safe handling** | Local exhaust is recommended. Avoid inhalation of vapors and spray mist and contact with skin and eyes. The product is flammable, and heating may generate vapors which may form explosive vapor/air mixtures. Do not smoke, use open fire or other sources of ignition. Material can accumulate static charges which may cause an electrical spark (ignition source). Use proper bonding and/or grounding procedures. Use non-sparking hand tools and explosion-proof electrical equipment. Observe good industrial hygiene practices. |
| **Conditions for safe storage, including any incompatibilities** | Follow rules for flammable liquids. Store in closed original container in a dry place. Keep away from heat, sparks and open flame. Protect against direct sunlight. Store away from incompatible materials. Prevent electrostatic charge build-up by using common bonding and grounding techniques. |

## 8. Exposure controls/personal protection

**Occupational exposure limits**

**US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)**

| Components | Type | Value |
|---|---|---|
| Ethylbenzene (CAS 100-41-4) | PEL | 435 mg/m3 |
| | | 100 ppm |
| n-Butyl acetate (CAS 123-86-4) | PEL | 710 mg/m3 |
| | | 150 ppm |
| Xylene (CAS 1330-20-7) | PEL | 435 mg/m3 |
| | | 100 ppm |

**US. ACGIH Threshold Limit Values**

| Components | Type | Value |
|---|---|---|
| Ethylbenzene (CAS 100-41-4) | TWA | 20 ppm |
| Hexamethylene-1, 6-diisocyanate (CAS 822-06-0) | TWA | 0.005 ppm |
| n-Butyl acetate (CAS 123-86-4) | STEL | 200 ppm |
| | TWA | 150 ppm |
| Xylene (CAS 1330-20-7) | STEL | 150 ppm |
| | TWA | 100 ppm |

**US. NIOSH: Pocket Guide to Chemical Hazards**

| Components | Type | Value |
|---|---|---|
| Ethylbenzene (CAS 100-41-4) | STEL | 545 mg/m3 |
| | | 125 ppm |
| | TWA | 435 mg/m3 |
| | | 100 ppm |
| Hexamethylene-1, 6-diisocyanate (CAS 822-06-0) | Ceiling | 0.14 mg/m3 |
| | | 0.02 ppm |
| | TWA | 0.035 mg/m3 |
| | | 0.005 ppm |
| n-Butyl acetate (CAS 123-86-4) | STEL | 950 mg/m3 |
| | | 200 ppm |
| | TWA | 710 mg/m3 |
| | | 150 ppm |
| Xylene (CAS 1330-20-7) | STEL | 655 mg/m3 |

**US. NIOSH: Pocket Guide to Chemical Hazards**

| Components | Type | Value |
|---|---|---|
| | | 150 ppm |
| | TWA | 435 mg/m3 |
| | | 100 ppm |

**Biological limit values**

**ACGIH Biological Exposure Indices**

| Components | Value | Determinant | Specimen | Sampling Time |
|---|---|---|---|---|
| Ethylbenzene (CAS 100-41-4) | 0.7 g/g | Sum of mandelic acid and phenylglyoxylic acid | Creatinine in urine | * |
| Xylene (CAS 1330-20-7) | 1.5 g/g | Methylhippuric acids | Creatinine in urine | * |

* - For sampling details, please see the source document.

**Appropriate engineering controls** Provide adequate ventilation. Observe Occupational Exposure Limits and minimize the risk of inhalation of vapors.

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

**Eye/face protection** Wear approved safety glasses or goggles.

**Skin protection**

**Hand protection** Wear protective gloves. Use disposable gloves protecting against isocyanates along with cotton gloves closest to the skin. Be aware that the liquid may penetrate the gloves. Frequent change is advisable. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material.

**Other** Wear suitable protective clothing. Use of protective coveralls and long sleeves is recommended.

**Respiratory protection** If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. In the United States of America, if respirators are used, a program should be instituted to assure compliance with OSHA 29 CFR 1910.134.

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

**General hygiene considerations** 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. Routinely wash work clothing and protective equipment to remove contaminants.

## 9. Physical and chemical properties

**Appearance** Clear, pale yellow liquid.

**Physical state** Liquid.

**Form** Liquid.

**Color** Clear, pale yellow.

**Odor** Strong sweet.

**Odor threshold** Not available.

**pH** 6 - 9

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

**Initial boiling point and boiling range** Not available.

**Flash point** 91.0 °F (32.8 °C) Closed Cup

**Evaporation rate** Slower than ether.

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

**Upper/lower flammability or explosive limits**

**Flammability limit - lower (%)** 1.7

**Flammability limit - lower (%) temperature** 212 °F (100 °C)

| | |
|---|---|
| **Flammability limit - upper (%)** | >9.44 |
| **Flammability limit - upper (%) temperature** | 212 °F (100 °C) |
| **Explosive limit - lower (%)** | Not available. |
| **Explosive limit - upper (%)** | Not available. |
| **Vapor pressure** | Not available. |
| **Vapor density** | Heavier then air. |
| **Relative density** | 1.2 - 1.32 |
| **Solubility(ies)** | |
| **Solubility (water)** | Insoluble in water. |
| **Partition coefficient (n-octanol/water)** | Not available. |
| **Auto-ignition temperature** | Not available. |
| **Decomposition temperature** | Not available. |
| **Viscosity** | Not available. |
| **Other information** | |
| **VOC (Weight %)** | 320 g/l EPA Method 24 Mixture of A and B |

## 10. Stability and reactivity

| | |
|---|---|
| **Reactivity** | The product is stable and non-reactive under normal conditions of use, storage and transport. |
| **Chemical stability** | Stable under normal temperature conditions. |
| **Possibility of hazardous reactions** | May polymerize if heated. |
| **Conditions to avoid** | Heat, sparks, flames. Contact with incompatible materials. |
| **Incompatible materials** | Strong oxidizing agents. |
| **Hazardous decomposition products** | No hazardous decomposition products are known. |

## 11. Toxicological information

**Information on likely routes of exposure**

| | |
|---|---|
| **Ingestion** | May cause discomfort if swallowed. |
| **Inhalation** | Harmful if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| **Skin contact** | May cause skin irritation. May cause an allergic skin reaction. |
| **Eye contact** | May cause eye irritation. |
| **Symptoms related to the physical, chemical and toxicological characteristics** | Prolonged or repeated contact may dry skin and cause irritation. Harmful if inhaled. May cause allergic respiratory reaction. May cause allergic skin reaction. |

**Information on toxicological effects**

**Acute toxicity** Harmful if inhaled.

| Components | Species | Test Results |
|---|---|---|
| 1,6-Diisocyanatohexane homopolymer (CAS 28182-81-2) | | |
| **Acute** | | |
| *Inhalation* | | |
| LC50 | Rat | 4.62 mg/l, 4 h |
| Ethylbenzene (CAS 100-41-4) | | |
| **Acute** | | |
| *Dermal* | | |
| LD50 | Rabbit | > 5000 mg/kg |
| *Oral* | | |
| LD50 | Rat | 5.46 g/kg |

| Components | Species | Test Results |
|---|---|---|
| Hexamethylene-1, 6-diisocyanate (CAS 822-06-0) | | |
| **Acute** | | |
| *Dermal* | | |
| LD50 | Rabbit | 593 mg/kg |
| *Inhalation* | | |
| LC50 | Rat | 22 mg/l, 4 Hours |
| *Oral* | | |
| LD50 | Rat | 960 mg/kg |
| n-Butyl acetate (CAS 123-86-4) | | |
| **Acute** | | |
| *Inhalation* | | |
| LC50 | Rat | 2000 ppm, 4 Hours |
| *Oral* | | |
| LD50 | Rat | 10768 mg/kg |
| Xylene (CAS 1330-20-7) | | |
| **Acute** | | |
| *Oral* | | |
| LD50 | Rat | 4300 mg/kg |

**Skin corrosion/irritation** Causes skin irritation.

**Serious eye damage/eye irritation** Irritating to eyes.

**Respiratory or skin sensitization**

**Respiratory sensitization** May cause allergy or asthma symptoms or breathing difficulties if inhaled.

**Skin sensitization** May cause allergic skin reaction.

**Germ cell mutagenicity** Not classified.

**Carcinogenicity** Suspected of causing cancer.

**IARC Monographs. Overall Evaluation of Carcinogenicity**

| | |
|---|---|
| Ethylbenzene (CAS 100-41-4) | 2B Possibly carcinogenic to humans. |
| Xylene (CAS 1330-20-7) | 3 Not classifiable as to carcinogenicity to humans. |

**Reproductive toxicity** Not classified.

**Specific target organ toxicity - single exposure** Not classified.

**Specific target organ toxicity - repeated exposure** No data available.

**Aspiration hazard** No data available.

**Chronic effects** Prolonged or repeated contact may dry skin and cause dermatitis.

**Further information** May cause central nervous system disorder (e.g., narcosis involving a loss of coordination, weakness, fatigue) and/or damage.

## 12. Ecological information

**Ecotoxicity** The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

| Components | | Species | Test Results |
|---|---|---|---|
| Ethylbenzene (CAS 100-41-4) | | | |
| **Aquatic** | | | |
| Crustacea | EC50 | Water flea (Daphnia magna) | 1 - 4 mg/l, 48 hours |
| Fish | LC50 | Rainbow trout,donaldson trout (Oncorhynchus mykiss) | 4 mg/l, 96 hours |
| n-Butyl acetate (CAS 123-86-4) | | | |
| **Aquatic** | | | |
| Fish | LC50 | Fathead minnow (Pimephales promelas) | 17 - 19 mg/l, 96 hours |

| Components | | Species | Test Results |
|---|---|---|---|
| Xylene (CAS 1330-20-7) | | | |
| **Aquatic** | | | |
| Fish | LC50 | Rainbow trout,donaldson trout (Oncorhynchus mykiss) | 8 mg/l, 96 Hours |

**Persistence and degradability** Not available.

**Bioaccumulative potential** Not available.

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

| | |
|---|---|
| Ethylbenzene (CAS 100-41-4) | 3.15 |
| Xylene (CAS 1330-20-7) | 3.2 |
| n-Butyl acetate (CAS 123-86-4) | 1.78 |

**Mobility in soil** Not available.

**Other adverse effects** No data available.

## 13. Disposal considerations

**Disposal instructions** Do not discharge into drains, water courses or onto the ground. Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.

**Local disposal regulations** Dispose of in accordance with local regulations.

**Hazardous waste code** D001: Waste Flammable material with a flash point <140 °F

**US RCRA Hazardous Waste U List: Reference**

| | |
|---|---|
| Xylene (CAS 1330-20-7) | U239 |

**Waste from residues / unused products** Do not discharge into rivers, lakes, mountains, etc. because the product may affect the environment.

**Contaminated packaging** Empty containers should be taken to an approved waste handling site for recycling or disposal.

## 14. Transport information

**DOT**

**UN number** UN1993
**UN proper shipping name** Flammable liquid, n.o.s. (n-Butyl acetate, Xylene)
**Transport hazard class(es)**
**Class** 3
**Subsidiary risk** -
**Packing group** III
**Environmental hazards**
**Marine pollutant** No
**Special precautions for user** Read safety instructions, SDS and emergency procedures before handling.
**Special provisions** IB2, T7, TP1, TP8, TP28
**Packaging exceptions** 150
**Packaging non bulk** 202
**Packaging bulk** 242

**IATA**

**UN number** UN1993
**UN proper shipping name** Flammable liquid, n.o.s. (n-Butyl acetate, Xylene)
**Transport hazard class(es)**
**Class** 3
**Subsidiary risk** -
**Label(s)** 3
**Packing group** III
**Environmental hazards** No
**Special precautions for user** Read safety instructions, SDS and emergency procedures before handling.

**IMDG**

**UN number** UN1993
**UN proper shipping name** Flammable liquid, n.o.s. (n-Butyl acetate, Xylene)
**Transport hazard class(es)**
**Class** 3
**Subsidiary risk** -
**Label(s)** 3

| | |
|---|---|
| **Packing group** | III |
| **Environmental hazards** | |
| **Marine pollutant** | No |
| **EmS** | F-E, S-E |
| **Special precautions for user** | Read safety instructions, SDS and emergency procedures before handling. |
| **Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** | Not applicable. |

## 15. Regulatory information

**US federal regulations**

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
All components are on the U.S. EPA TSCA Inventory List.

**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**

Not regulated.

**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**

Not listed.

**CERCLA Hazardous Substance List (40 CFR 302.4)**

| | |
|---|---|
| Ethylbenzene (CAS 100-41-4) | LISTED |
| Hexamethylene-1, 6-diisocyanate (CAS 822-06-0) | LISTED |
| n-Butyl acetate (CAS 123-86-4) | LISTED |
| Xylene (CAS 1330-20-7) | LISTED |

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**Hazard categories**

Immediate Hazard - Yes
Delayed Hazard - Yes
Fire Hazard - Yes
Pressure Hazard - No
Reactivity Hazard - No

**SARA 302 Extremely hazardous substance**

Not listed.

**SARA 311/312 Hazardous chemical**

Yes

**SARA 313 (TRI reporting)**

| Chemical name | CAS number | % by wt. |
|---|---|---|
| Xylene | 1330-20-7 | 7-13 |
| Ethylbenzene | 100-41-4 | <2 |

**Other federal regulations**

**Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

Ethylbenzene (CAS 100-41-4)
Hexamethylene-1, 6-diisocyanate (CAS 822-06-0)
Xylene (CAS 1330-20-7)

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**

Not regulated.

**Safe Drinking Water Act (SDWA)**

Not regulated.

**US state regulations**

WARNING: This product contains a chemical known to the State of California to cause cancer.

**US. Massachusetts RTK - Substance List**

Ethylbenzene (CAS 100-41-4)
Hexamethylene-1, 6-diisocyanate (CAS 822-06-0)
n-Butyl acetate (CAS 123-86-4)
Xylene (CAS 1330-20-7)

**US. New Jersey Worker and Community Right-to-Know Act**

Ethylbenzene (CAS 100-41-4)
Hexamethylene-1, 6-diisocyanate (CAS 822-06-0)
n-Butyl acetate (CAS 123-86-4)
Xylene (CAS 1330-20-7)

**US. Pennsylvania Worker and Community Right-to-Know Law**

Ethylbenzene (CAS 100-41-4)
n-Butyl acetate (CAS 123-86-4)
Xylene (CAS 1330-20-7)

**US. Rhode Island RTK**

Ethylbenzene (CAS 100-41-4)
Hexamethylene-1, 6-diisocyanate (CAS 822-06-0)
n-Butyl acetate (CAS 123-86-4)
Xylene (CAS 1330-20-7)

**US. California Proposition 65**

**US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance**

Ethylbenzene (CAS 100-41-4)

**International Inventories**

| Country(s) or region | Inventory name | On inventory (yes/no)* |
|---|---|---|
| Australia | Australian Inventory of Chemical Substances (AICS) | Yes |
| Canada | Domestic Substances List (DSL) | Yes |
| Canada | Non-Domestic Substances List (NDSL) | No |
| China | Inventory of Existing Chemical Substances in China (IECSC) | Yes |
| Europe | European Inventory of Existing Commercial Chemical Substances (EINECS) | Yes |
| Europe | European List of Notified Chemical Substances (ELINCS) | No |
| Japan | Inventory of Existing and New Chemical Substances (ENCS) | Yes |
| Korea | Existing Chemicals List (ECL) | Yes |
| New Zealand | New Zealand Inventory | Yes |
| Philippines | Philippine Inventory of Chemicals and Chemical Substances (PICCS) | Yes |
| United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory | Yes |

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).
A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

## 16. Other information, including date of preparation or last revision

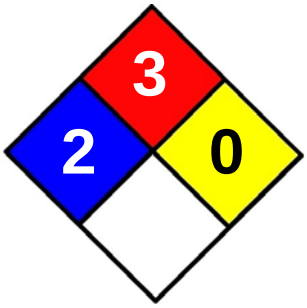
**Issue date** 27-January-2013

**Revision date** 11-June-2014

**Version #** 03

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

**NFPA Ratings**




**References** IUCLID
RTECS
HSDB® - Hazardous Substances Data Bank

**Disclaimer** The information in the sheet was written based on the best knowledge and experience currently available.