



AkzoNobel

Material Safety Data Sheet

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1. Product and company identification

Prepared for

ATTN:

Chemcraft

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Prepared by

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In case of emergency (Health or Spills):

CHEMTREC (US and Canada) (800) 424-9300

Product no. : 873-1251PJA

Product - Class : Catalyst

Customer Part Number :

Customer ShipTo ID : 0000109024

2. Hazards identification

Physical state

: Liquid.

OSHA/HCS status

: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Emergency overview

: WARNING!

FLAMMABLE LIQUID AND VAPOR. HARMFUL IF SWALLOWED. CAUSES SEVERE EYE AND SKIN IRRITATION. CAUSES RESPIRATORY TRACT IRRITATION. MAY BE HARMFUL IF ABSORBED THROUGH SKIN. CONTAINS MATERIAL THAT MAY CAUSE TARGET ORGAN DAMAGE, BASED ON ANIMAL DATA.

Keep away from heat, sparks and flame. Do not ingest. Do not get in eyes. Avoid breathing vapor or mist. Avoid contact with skin and clothing. Use only with adequate ventilation. Keep container tightly closed and sealed until ready for use. Wash thoroughly after handling.

Routes of entry

: Dermal contact. Eye contact. Inhalation. Ingestion.

Potential acute health effects

Inhalation

: Irritating to respiratory system.

Other effects of inhalation may include: blood effects, CNS effects, cough, diarrhea, dizziness, drowsiness, fatigue, headache, nausea, pulmonary edema, vomiting, weakness,

Ingestion

: Harmful if swallowed.

Other effects of ingestion may include : abdominal pain, blood effects, burns, CNS effects, diarrhea, dizziness, drowsiness, fatigue, gastric disturbances, headache, incoordination, irritation, kidney damage, liver damage, nausea, vomiting, weakness,

Skin

: Harmful in contact with skin. Severely irritating to the skin.

Other effects of skin contact may include: dehydration, dermatitis, discoloration, Effects due to absorption through skin may include: blood effects, CNS effects, diarrhea, dizziness, drowsiness, fatigue, headache, nausea, vomiting, weakness,

Eyes

: Severely irritating to eyes. Risk of serious damage to eyes.

2. Hazards identification

Other effects of eye contact may include : burning, eye damage, redness, tearing,

Potential chronic health effects

- Carcinogenicity** : No known significant effects or critical hazards.
Mutagenicity : No known significant effects or critical hazards.
Teratogenicity : No known significant effects or critical hazards.
Target organs : Contains material which may cause damage to the following organs: blood, kidneys, liver, skin, central nervous system (CNS).

Medical conditions aggravated by over-exposure : skin disorders, liver conditions, respiratory conditions,

NOTICE: Reports have associated repeated and prolonged OVEREXPOSURE to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents of this package may be harmful or fatal.

See toxicological information (Section 11)

3. Composition/information on ingredients

| <u>Name</u> | <u>CAS number</u> | <u>% by weight</u> | <u>Vapor pressure</u> | <u>Exposure limits</u> |
|-------------------------|-------------------|--------------------|-----------------------------|--|
| ethyl alcohol | 64-17-5 | | 7.9 kPa (59.3 mm Hg) [20°C] | ACGIH TLV (United States). STEL: 1000 ppm 15 minute(s). OSHA PEL (United States). TWA: 1000 ppm 8 hour(s). |
| ethyl acetate | 141-78-6 | | 10.1 kPa (76 mm Hg) [20°C] | ACGIH TLV (United States). TWA: 400 ppm 8 hour(s). OSHA PEL (United States). TWA: 400 ppm 8 hour(s). |
| isopropanol | 67-63-0 | | 4.4 kPa (33 mm Hg) [20°C] | ACGIH TLV (United States). TWA: 200 ppm 8 hour(s). STEL: 400 ppm 15 minute(s). OSHA PEL (United States). TWA: 400 ppm 8 hour(s). |
| p-toluene sulfonic acid | 104-15-4 | | Not available. | |
| butanol | 71-36-3 | | 0.73 kPa (5.5 mm Hg) [20°C] | ACGIH TLV (United States). TWA: 20 ppm 8 hour(s). OSHA PEL (United States). TWA: 100 ppm 8 hour(s). |

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

4. First aid measures

- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.
- Eye contact** : Get medical attention immediately if symptoms occur. Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids.
- Skin contact** : Get medical attention immediately if symptoms occur. In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse.

4. First aid measures

- Inhalation** : Get medical attention immediately if symptoms occur. Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband.
- Ingestion** : Get medical attention immediately. Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.

5. Fire-fighting measures

- Flammability of the product** : Flammable liquid. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard.
- Flash point** : Closed cup: -4°C (24.8°F)
- Flammable limits** : Lower: 1.5%
Upper: 19%
- Extinguishing media**
- Suitable** : Use dry chemical, CO₂, water spray (fog) or foam.
- Not suitable** : Do not use water jet.
- Special exposure hazards** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
- Hazardous thermal decomposition products** : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
sulfur oxides
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

UNUSUAL FIRE HAZARDS: During emergency conditions, overexposure to products of combustion may cause a health hazard; symptoms may not be immediately apparent. Obtain medical attention.
- Special remarks on fire hazards** : Not available.
- Special remarks on explosion hazards** : Not available.

6. Accidental release measures

- Personal precautions** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).
- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
- Methods for cleaning up**
- Small spill** : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor.

6. Accidental release measures

- Large spill** : Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product.

7. Handling and storage

- Handling** : Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Use only with adequate ventilation. Do not enter confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container.
- Storage** : Store in accordance with local regulations. Store in approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

8. Exposure controls/personal protection

- Engineering measures** : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
- Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
- Personal protection** Selection of personal protective equipment (PPE) is to be established by the employer performing a PPE hazard assessment. In the U.S.A, OSHA requires completion of a documented PPE hazard assessment as described in 29 CFR 1910.132.
- Respiratory** : Use properly fitted respiratory protection complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
Dry sanding, flame cutting and/or welding of the dry paint film will give rise to dust and/or hazardous fumes. Wet sanding/flattening should be used wherever possible. If exposure cannot be avoided by the provision of local exhaust ventilation, suitable respiratory protective equipment should be used.
- Hands** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

8. Exposure controls/personal protection

- Eyes** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts.
- Skin** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Other protection** : Not available.

9. Physical and chemical properties

- Physical state** : Liquid.
- Burning time** : Not applicable.
- Burning rate** : Not applicable.
- Color** : Not available.
- Odor** : Not available.
- Taste** : Not available.
- Molecular weight** : Not applicable.
- Molecular formula** : Not applicable.
- pH** : Not available.
- Boiling/condensation point** : 76.11 to 153.89°C (169 to 309°F)
- Melting/freezing point** : Not available.
- Critical temperature** : Not available.
- Relative density** : 0.87
- Vapor density** : Heavier than air
- Volatility** : 86.51% (w/w)
- Odor threshold** : Not available.
- Evaporation rate** : Highest known value: Greater than 1. (ethyl alcohol) compared with butyl acetate
- Viscosity** : Not available.
- Ionicity (in water)** : Not available.
- Dispersibility properties** : Not available.
- Solubility** : Not available.

10. Stability and reactivity

- Chemical stability** : The product is stable, under normal conditions of storage and use.
- Hazardous polymerization** : Will not undergo hazardous polymerization.
- Conditions to avoid** : Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.
Other Conditions to avoid: light, moisture, allow air blanket above liquid, drying out,
- Materials to avoid** : Reactive or incompatible with the following materials: oxidizing materials, metals, acids and alkalis.
- Hazardous decomposition products** : Not available.
- Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.

11. Toxicological information

Acute toxicity

| Product/ingredient name | Result | Species | Dose | Exposure |
|---------------------------------------|-----------------------|---------|-------------|----------|
| p-toluene sulfonic acid ethyl acetate | LD50 Oral | Rat | 2480 mg/kg | - |
| | LD50 Oral | Rat | 5620 mg/kg | - |
| | LC50 Inhalation Vapor | Rat | 1600 ppm | 8 hours |
| isopropanol | LD50 Dermal | Rabbit | 12800 mg/kg | - |
| | LD50 Oral | Rat | 5000 mg/kg | - |
| | LC50 Inhalation Vapor | Rat | 16000 ppm | 8 hours |
| ethyl alcohol | LD50 Dermal | Rabbit | 20000 mg/kg | - |
| | LD50 Oral | Rat | 7060 mg/kg | - |
| | LC50 Inhalation Vapor | Rat | 20000 ppm | 10 hours |
| butanol | LD50 Dermal | Rabbit | 3400 mg/kg | - |
| | LD50 Oral | Rat | 790 mg/kg | - |
| | LC50 Inhalation Vapor | Rat | 8000 ppm | 4 hours |

Carcinogenicity

Not available.

Mutagenicity

Product/ingredient name
Not available.

Test Experiment Result

Teratogenicity

Product/ingredient name
Not available.

Result Species Dose Exposure

12. Ecological information

Data available upon request.

13. Disposal considerations

Waste disposal





: The generation of waste should be avoided or minimized wherever possible. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

14. Transport information

Note: Information contained in this section may vary from the actual shipping description depending on quantity in containers, mode of shipment and use of exemptions.

14. Transport information

| Regulatory information | UN number | Proper shipping name | Classes | PG* | Label | Additional information |
|---------------------------|-----------|--|---------|-----|---|---|
| DOT Classification | UN2924 | Flammable liquid, corrosive, n.o.s. (ethyl alcohol, p-toluene sulfonic acid) | 3 (8) | II |  | RQ: 22225.5lbs (10079.6kgs) [ethyl acetate] |
| TDG Classification | UN2924 | Flammable liquid, corrosive, n.o.s. (ethyl alcohol, p-toluene sulfonic acid) | 3 (8) | II |  | - |
| IMDG Class | UN2924 | Flammable liquid, corrosive, n.o.s. (ethyl alcohol, p-toluene sulfonic acid) | 3 (8) | II |  | - |
| IATA-DGR Class | UN2924 | Flammable liquid, corrosive, n.o.s. (ethyl alcohol, p-toluene sulfonic acid) | 3 (8) | II |  | - |

PG* : Packing group

15. Regulatory information

United States

U.S. Federal regulations : **United States inventory (TSCA 8b)** : All components are listed or exempted.
(HAPS) Clean Air Act (CAA) 112 regulated toxic substances: No products were found.

SARA 313

| | <u>Product name</u> | <u>CAS number</u> | <u>Concentration</u> |
|--|---------------------|-------------------|----------------------|
| Form R - Reporting requirements | : butanol | 71-36-3 | 5.00 |

SARA 313 notifications must not be detached from the MSDS and any copying and redistribution of the MSDS shall include copying and redistribution of the notice attached to copies of the MSDS subsequently redistributed.

California Prop. 65

Not applicable.

| <u>Ingredient name</u> | <u>Cancer</u> | <u>Reproductive</u> | <u>No significant risk level</u> | <u>Maximum acceptable dosage level</u> |
|------------------------|---------------|---------------------|----------------------------------|--|
| Not applicable. | | | | |

Canada

Canada inventory : All components of this product are on the CEPA DSL inventory.

15. Regulatory information

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

International regulations

International lists

- : Australia inventory (AICS): Not determined.
- China inventory (IECSC): Not determined.
- Japan inventory: Not determined.
- Korea inventory: Not determined.
- New Zealand Inventory of Chemicals (NZIoC): Not determined.
- Philippines inventory (PICCS): Not determined.

** All values in this section reported as percentage by weight, unless otherwise specified.

16. Other information

HMIS III ® Hazardous
Material Information System
(U.S.A.)

| | | |
|---------------------|---|---|
| Health | - | 3 |
| Flammability | | 3 |
| Physical hazards | | 0 |
| Personal protection | | |

Caution: HMIS III ® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risk, and 4 representing severe hazards or risk. Although HMIS III ® ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS III ® ratings are to be used with a fully implemented HMIS III ® program. HMIS III ® is a registered mark of the National Paint & Coatings Association (NPCA).

The customer is responsible for determining the PPE code for this material.

Other special
considerations

: Not available.

Notice to reader

IMPORTANT NOTE The information in this data sheet is not intended to be exhaustive and is based on the present state of our knowledge and on current laws: any person using the product for any purpose other than that specifically recommended in the technical data sheet without first obtaining written confirmation from us as to the suitability of the product for the intended purpose does so at his own risk. It is always the responsibility of the user to take all necessary steps to fulfill the demands set out in the local rules and legislation. Always read the Material Data Sheet and the Technical Data Sheet for this product if available. All advice we give or any statement made about the product by us (whether in this data sheet or otherwise) is correct to the best of our knowledge but we have no control over the quality or the condition of the substrate or the many factors affecting the use and application of the product. Therefore, unless we specifically agree in writing otherwise, we do not accept any liability whatsoever for the performance of the product or for any loss or damage arising out of the use of the product. All products supplied and technical advice given are subject to our standard terms and conditions of sale. You should request a copy of this document and review it carefully. The information contained in this data sheet is subject to modification from time to time in the light of experience and our policy of continuous development. It is the user's responsibility to verify that this data sheet is current prior to using the product.

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