

SAFETY DATA SHEET

Blending Solvent

Section 1. Identification

GHS product identifier : Blending Solvent
SDS code : R27636

Relevant identified uses of the substance or mixture and uses advised against

| Identified uses |
|----------------------|
| Industrial use |
| Uses advised against |
| All other uses |

Supplier's details

Akzo Nobel Coatings, Inc.
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Troy, MI, 48084
USA
(800) 618-1010

Akzo Nobel Coatings Ltd.
110 Woodbine Downs Blvd.
Unit #4 Etobicoke, Ontario
Canada M9W 5S6
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Importer : Cía. Mexicana de Pinturas International
S.A. de C.V., Carretera Anillo Periférico,
No Ext 205, No Interior A, Colonia HDA S JOSE, Garcia, Garcia, CP 66000, Nuevo
Leon.
RFC: ANA9510267C4

Emergency telephone number (with hours of operation) : CHEMTREC +1 (800) 424-9300 (Inside the US)
CHEMTREC International +1 (703) 527-3887 (Outside the US, collect calls accepted)

Section 2. Hazards identification




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

Classification of the substance or mixture : FLAMMABLE LIQUIDS - Category 2
ACUTE TOXICITY (dermal) - Category 4
ACUTE TOXICITY (inhalation) - Category 4
SKIN IRRITATION - Category 2
EYE IRRITATION - Category 2A
CARCINOGENICITY - Category 2
TOXIC TO REPRODUCTION - Category 2
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2
ASPIRATION HAZARD - Category 1

GHS label elements

| | | | |
|--------------------------------|------------|---------|--------|
| Date of issue/Date of revision | : 8/8/2024 | Version | : 1.01 |
| Date of previous issue | : 7/9/2024 | | 1/18 |

Section 2. Hazards identification

| | |
|----------------------------------|--|
| Hazard pictograms | : <div></div> |
| Signal word | : Danger |
| Hazard statements | : Highly flammable liquid and vapor. May be fatal if swallowed and enters airways. Harmful in contact with skin or if inhaled. Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation. May cause drowsiness or dizziness. Suspected of causing cancer. Suspected of damaging fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure. (hearing organs) |
| Precautionary statements | |
| Prevention | : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing and eye or face protection. Keep away from heat, sparks and hot surfaces. No smoking. Use explosion-proof electrical, ventilating or lighting equipment. Use non-sparking tools. Take action to prevent static discharges. Use only outdoors or in a well-ventilated area. Do not breathe vapor. Wash hands thoroughly after handling. |
| Response | : IF exposed or concerned: Get medical advice or attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell. IF SWALLOWED: Immediately call a POISON CENTER or doctor. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. IF ON SKIN: Call a POISON CENTER or doctor if you feel unwell. Wash with plenty of water. If skin irritation occurs: Get medical advice or attention. IF IN EYES: 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 or attention. |
| Storage | : Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep cool. |
| Disposal | : Dispose of contents and container in accordance with all local, regional, national or international regulations. |
| Hazards not otherwise classified | : None known. |

Section 3. Composition/information on ingredients

Substance/mixture : Mixture

| Ingredient name | % | CAS number |
|--------------------------|-----------|------------|
| 4-methylpentan-2-one | ≥50 - ≤75 | 108-10-1 |
| xylene | ≥25 - ≤45 | 1330-20-7 |
| ethyl 3-ethoxypropionate | ≥10 - ≤25 | 763-69-9 |
| ethylbenzene | ≤10 | 100-41-4 |
| toluene | ≤0.3 | 108-88-3 |

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

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

Occupational exposure limits, if available, are listed in Section 8.

| | | |
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| Date of issue/Date of revision | : 8/8/2024 | Version : 1.01 |
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Section 4. First aid measures

Description of necessary first aid measures

- Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Skin contact** : Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. If necessary, call a poison center or physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Ingestion** : Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. 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. Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptoms/effects, acute and delayed

Potential acute health effects

- Eye contact** : Causes serious eye irritation.
- Inhalation** : Harmful if inhaled. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.
- Skin contact** : Harmful in contact with skin. Causes skin irritation.
- Ingestion** : Can cause central nervous system (CNS) depression. May be fatal if swallowed and enters airways.

Over-exposure signs/symptoms

- Eye contact** : Adverse symptoms may include the following:
pain or irritation
watering
redness
- Inhalation** : Adverse symptoms may include the following:
respiratory tract irritation
coughing
nausea or vomiting
headache
drowsiness/fatigue
dizziness/vertigo
unconsciousness
reduced fetal weight
increase in fetal deaths
skeletal malformations
- Skin contact** : Adverse symptoms may include the following:
irritation
redness
reduced fetal weight
increase in fetal deaths
skeletal malformations

Section 4. First aid measures

- Ingestion** : Adverse symptoms may include the following:
 nausea or vomiting
 reduced fetal weight
 increase in fetal deaths
 skeletal malformations

Indication of immediate medical attention and special treatment needed, if necessary

- Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- Specific treatments** : No specific treatment.
- 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.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

- Suitable extinguishing media** : Use dry chemical, CO₂, water spray (fog) or foam.
- Unsuitable extinguishing media** : Do not use water jet.

- Specific hazards arising from the chemical** : Highly flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion.
- Hazardous thermal decomposition products** : Decomposition products may include the following materials:
 carbon dioxide
 carbon monoxide

- Special protective actions for fire-fighters** : 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.

- 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.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : 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.
- For emergency responders** : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

- 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).

Section 6. Accidental release measures

Methods and materials for containment and cleaning up

- Small spill** : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
- Large spill** : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. 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). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not swallow. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and 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 only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
- Advice on general occupational hygiene** : 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. Remove contaminated clothing and protective equipment before entering eating areas. Ensure spraying away from persons. Avoid inhalation of vapor, spray or mist. See also Section 8 for additional information on hygiene measures.
- Conditions for safe storage, including any incompatibilities** : Store in accordance with local regulations. Store in a segregated and 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. Store locked up. 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. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

| Ingredient name | Exposure limits |
|----------------------|--|
| 4-methylpentan-2-one | ACGIH TLV (United States, 1/2022). Notes: Substances for which there is a Biological Exposure Index or Indices STEL: 75 ppm 15 minutes. TWA: 20 ppm 8 hours. NIOSH REL (United States, 10/2020). STEL: 300 mg/m ³ 15 minutes. STEL: 75 ppm 15 minutes. TWA: 205 mg/m ³ 10 hours. |

Section 8. Exposure controls/personal protection

xylene

TWA: 50 ppm 10 hours.
OSHA PEL (United States, 5/2018).
 TWA: 410 mg/m³ 8 hours.
 TWA: 100 ppm 8 hours.
OSHA PEL 1989 (United States, 3/1989).
 STEL: 300 mg/m³ 15 minutes.
 STEL: 75 ppm 15 minutes.
 TWA: 205 mg/m³ 8 hours.
 TWA: 50 ppm 8 hours.
ACGIH TLV (United States, 1/2022). [xylene]
Notes: 1996 Adoption Substances for which there is a Biological Exposure Index or Indices Refers to Appendix A -- Carcinogens.
 STEL: 651 mg/m³ 15 minutes.
 TWA: 434 mg/m³ 8 hours.
 TWA: 20 ppm 8 hours.
OSHA PEL (United States, 5/2018).
[Xylenes]
 TWA: 435 mg/m³ 8 hours.
 TWA: 100 ppm 8 hours.
OSHA PEL 1989 (United States, 3/1989).
[Xylenes (o-, m-, p-isomers)]
 STEL: 655 mg/m³ 15 minutes.
 STEL: 150 ppm 15 minutes.
 TWA: 435 mg/m³ 8 hours.
 TWA: 100 ppm 8 hours.

ethyl 3-ethoxypropionate
ethylbenzene

None.
ACGIH TLV (United States, 1/2022).
Ototoxicant. Notes: Substances for which there is a Biological Exposure Index or Indices 2002 Adoption.
 TWA: 20 ppm 8 hours.
NIOSH REL (United States, 10/2020).
 STEL: 545 mg/m³ 15 minutes.
 STEL: 125 ppm 15 minutes.
 TWA: 435 mg/m³ 10 hours.
 TWA: 100 ppm 10 hours.
OSHA PEL (United States, 5/2018).
 TWA: 435 mg/m³ 8 hours.
 TWA: 100 ppm 8 hours.
OSHA PEL 1989 (United States, 3/1989).
 STEL: 545 mg/m³ 15 minutes.
 STEL: 125 ppm 15 minutes.
 TWA: 435 mg/m³ 8 hours.
 TWA: 100 ppm 8 hours.

toluene

NIOSH REL (United States, 10/2020).
 STEL: 560 mg/m³ 15 minutes.
 STEL: 150 ppm 15 minutes.
 TWA: 375 mg/m³ 10 hours.
 TWA: 100 ppm 10 hours.
OSHA PEL Z2 (United States, 2/2013).
 AMP: 500 ppm 10 minutes.
 CEIL: 300 ppm
 TWA: 200 ppm 8 hours.
ACGIH TLV (United States, 1/2022).
Ototoxicant.
 TWA: 20 ppm 8 hours.
OSHA PEL 1989 (United States, 3/1989).
Notes: See Table Z-2.

Section 8. Exposure controls/personal protection

STEL: 560 mg/m³ 15 minutes.
 STEL: 150 ppm 15 minutes.
 TWA: 375 mg/m³ 8 hours.
 TWA: 100 ppm 8 hours.

- Appropriate engineering controls** : 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.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

- 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.
- Eye/face protection** : 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, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.
- Skin protection**
- Hand protection** : 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. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
- Body protection** : 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. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties and safety characteristics

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

Appearance

- Physical state** : Liquid.
- Color** : Colorless.
- Odor** : Not available.
- Odor threshold** : Not available.

Section 9. Physical and chemical properties and safety characteristics

pH : Not applicable. [DIN EN 1262]
Melting point/freezing point : Not available.
Boiling point, initial boiling point, and boiling range : 117°C (242.6°F)
Flash point : Closed cup: 13°C (55.4°F) [Pensky-Martens]
Flammability : Not available.
Lower and upper explosion limit : Greatest known range: Lower: 1.05% Upper: 9.8% (ethyl 3-ethoxypropionate)
Vapor pressure :

| Ingredient name | Vapor Pressure at 20°C | | | Vapor pressure at 50°C | | |
|----------------------|------------------------|------|--------|------------------------|-----|--------|
| | mm Hg | kPa | Method | mm Hg | kPa | Method |
| 4-methylpentan-2-one | 15.75 | 2.1 | | | | |
| ethylbenzene | 9.3 | 1.2 | | | | |
| xylene | 6.7 | 0.89 | | | | |

Relative vapor density : Not available.
Relative density : 0.845 [ISO 8130-2/-3]
Solubility(ies) :
Not available.
Partition coefficient: n-octanol/water : Not applicable.
Auto-ignition temperature :

| Ingredient name | °C | °F | Method |
|--------------------------|--------|-------|--------|
| ethyl 3-ethoxypropionate | 377 | 710.6 | |
| xylene | 432 | 809.6 | |
| ethylbenzene | 432.22 | 810 | |

Decomposition temperature : Not available.
Viscosity : Kinematic (room temperature): 12 mm²/s (12 cSt) [DIN EN ISO 3219]
Kinematic (40°C (104°F)): 7 mm²/s (7 cSt) [DIN EN ISO 3219]
Weight Volatiles : 99.97% (w/w)
Volume Volatiles : 99.98 % (v/v)
Weight Solids : 0.03 % (w/w)
Volume Solids : 0.02 % (v/v)
Regulatory VOC : 7.0 lbs/gal 844 g/l minus water and exempt solvents
VOC Actual : 7.0 lbs/gal 844 g/l

Particle characteristics

Median particle size : Not applicable.
Percentage of particles with aerodynamic diameter ≤ 10 µm : 0

Section 10. Stability and reactivity

| | |
|---|---|
| Reactivity | : No specific test data related to reactivity available for this product or its ingredients. |
| Chemical stability | : The product is stable. |
| Possibility of hazardous reactions | : Under normal conditions of storage and use, hazardous reactions will not occur. |
| 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. |
| Incompatible materials | : Reactive or incompatible with the following materials: oxidizing materials |
| Hazardous decomposition products | : Under normal conditions of storage and use, hazardous decomposition products should not be produced. |

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

| Product/ingredient name | Result | Species | Dose | Exposure |
|--------------------------|-----------------------|--------------------|-------------------------|----------|
| 4-methylpentan-2-one | LC50 Inhalation Vapor | Rat - Male, Female | 11.6 mg/l | 4 hours |
| | LD50 Intraperitoneal | Guinea pig | 800 mg/kg | - |
| | LD50 Intraperitoneal | Mouse | 268 mg/kg | - |
| | LD50 Intraperitoneal | Rat | 400 mg/kg | - |
| | LD50 Oral | Guinea pig | 1600 mg/kg | - |
| | LD50 Oral | Mouse | 1900 mg/kg | - |
| | LD50 Oral | Mouse | 2850 mg/kg | - |
| | LD50 Oral | Rat | 2080 mg/kg | - |
| | LD50 Oral | Rat | 4600 mg/kg | - |
| | LC50 Inhalation Gas. | Rat | 5000 ppm | 4 hours |
| | LC50 Inhalation Gas. | Rat | 6700 ppm | 4 hours |
| | LC50 Inhalation Gas. | Rat | 6670 ppm | 4 hours |
| | LD50 Intraperitoneal | Mouse | 1548 mg/kg | - |
| | LD50 Intraperitoneal | Mouse | 1548 mg/kg | - |
| | LD50 Intraperitoneal | Rat | 2459 mg/kg | - |
| xylene | LD50 Oral | Mouse | 2119 mg/kg | - |
| | LD50 Oral | Rat | 4300 mg/kg | - |
| | LD50 Oral | Rat | 4300 mg/kg | - |
| | LD50 Subcutaneous | Rat | 1700 mg/kg | - |
| | LD50 Dermal | Rabbit | 10 mL/kg | - |
| ethyl 3-ethoxypropionate | LD50 Oral | Rat | 5 g/kg | - |
| | LD50 Oral | Rat | 3200 mg/kg | - |
| | LC50 Inhalation Gas. | Rabbit | 4000 ppm | 4 hours |
| ethylbenzene | LC50 Inhalation Vapor | Mouse | 35500 mg/m ³ | 2 hours |
| | LC50 Inhalation Vapor | Rat | 55000 mg/m ³ | 2 hours |
| | LD50 Dermal | Rabbit | >5000 mg/kg | - |
| | LD50 Dermal | Rabbit | 17800 uL/kg | - |
| | LD50 Intraperitoneal | Mouse | 2624 uL/kg | - |
| | LD50 Oral | Rat | 3500 mg/kg | - |
| | LD50 Oral | Rat | 3500 mg/kg | - |
| | LC50 Inhalation Gas. | Mouse | 400 ppm | 24 hours |
| toluene | LC50 Inhalation Vapor | Mouse | 30000 mg/m ³ | 2 hours |
| | LC50 Inhalation Vapor | Mouse | 19900 mg/m ³ | 7 hours |
| | LC50 Inhalation Vapor | Rat | 49 g/m ³ | 4 hours |
| | LD50 Dermal | Rabbit | 14100 uL/kg | - |
| | LD50 Intraperitoneal | Guinea pig | 500 mg/kg | - |
| | | | | |

Section 11. Toxicological information

| | | | | |
|--|-----------------------------------|-------|------------|---|
| | LD50 Intraperitoneal | Mouse | 59 mg/kg | - |
| | LD50 Intraperitoneal | Rat | 1332 mg/kg | - |
| | LD50 Intravenous | Rat | 1960 mg/kg | - |
| | LD50 Oral | Rat | 636 mg/kg | - |
| | LD50 Route of exposure unreported | Mouse | 2 g/kg | - |
| | LD50 Route of exposure unreported | Rat | 6900 mg/kg | - |
| | LD50 Subcutaneous | Mouse | 2250 mg/kg | - |

Irritation/Corrosion

| Product/ingredient name | Result | Species | Score | Exposure | Observation |
|--------------------------|--------------------------|---------|-------|--------------------|-------------|
| 4-methylpentan-2-one | Eyes - Moderate irritant | Rabbit | - | 24 hours 100 UI | - |
| | Eyes - Severe irritant | Rabbit | - | 40 mg | - |
| | Skin - Mild irritant | Rabbit | - | 24 hours 500 mg | - |
| xylene | Eyes - Mild irritant | Rabbit | - | 87 mg | - |
| | Eyes - Severe irritant | Rabbit | - | 24 hours 5 mg | - |
| | Skin - Mild irritant | Rat | - | 8 hours 60 UI | - |
| | Skin - Moderate irritant | Rabbit | - | 100 % | - |
| | Skin - Moderate irritant | Rabbit | - | 24 hours 500 mg | - |
| ethyl 3-ethoxypropionate | Skin - Mild irritant | Rabbit | - | 24 hours 500 mg | - |
| ethylbenzene | Eyes - Severe irritant | Rabbit | - | 500 mg | - |
| | Skin - Mild irritant | Rabbit | - | 24 hours 15 mg | - |
| toluene | Eyes - Mild irritant | Rabbit | - | 0.5 minutes 100 mg | - |
| | Eyes - Mild irritant | Rabbit | - | 870 ug | - |
| | Eyes - Severe irritant | Rabbit | - | 24 hours 2 mg | - |
| | Skin - Mild irritant | Rabbit | - | 435 mg | - |
| | Skin - Moderate irritant | Rabbit | - | 24 hours 20 mg | - |
| | Skin - Moderate irritant | Rabbit | - | 500 mg | - |

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Classification

| Product/ingredient name | OSHA | IARC | NTP |
|-------------------------|------|------|-----|
| 4-methylpentan-2-one | - | 2B | - |
| xylene | - | 3 | - |
| ethylbenzene | - | 2B | - |
| toluene | - | 3 | - |

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Section 11. Toxicological information

Specific target organ toxicity (single exposure)

| Name | Category | Route of exposure | Target organs |
|----------------------|------------|-------------------|------------------------------|
| 4-methylpentan-2-one | Category 3 | - | Narcotic effects |
| xylene | Category 3 | - | Respiratory tract irritation |
| toluene | Category 3 | - | Narcotic effects |

Specific target organ toxicity (repeated exposure)

| Name | Category | Route of exposure | Target organs |
|--------------|------------|-------------------|-------------------------|
| ethylbenzene | Category 2 | - | hearing organs |
| toluene | Category 2 | inhalation | cerebral nervous system |

Aspiration hazard

| Name | Result |
|--------------|--------------------------------|
| xylene | ASPIRATION HAZARD - Category 1 |
| ethylbenzene | ASPIRATION HAZARD - Category 1 |
| toluene | ASPIRATION HAZARD - Category 1 |

Information on the likely routes of exposure : Not available.

Potential acute health effects

- Eye contact : Causes serious eye irritation.
- Inhalation : Harmful if inhaled. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.
- Skin contact : Harmful in contact with skin. Causes skin irritation.
- Ingestion : Can cause central nervous system (CNS) depression. May be fatal if swallowed and enters airways.

Symptoms related to the physical, chemical and toxicological characteristics

- Eye contact : Adverse symptoms may include the following:
pain or irritation
watering
redness
- Inhalation : Adverse symptoms may include the following:
respiratory tract irritation
coughing
nausea or vomiting
headache
drowsiness/fatigue
dizziness/vertigo
unconsciousness
reduced fetal weight
increase in fetal deaths
skeletal malformations
- Skin contact : Adverse symptoms may include the following:
irritation
redness
reduced fetal weight
increase in fetal deaths
skeletal malformations

Section 11. Toxicological information

Ingestion : Adverse symptoms may include the following:
nausea or vomiting
reduced fetal weight
increase in fetal deaths
skeletal malformations

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects : Not available.
Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.
Potential delayed effects : Not available.

Potential chronic health effects

Not available.

General : May cause damage to organs through prolonged or repeated exposure.
Carcinogenicity : Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.
Mutagenicity : No known significant effects or critical hazards.
Reproductive toxicity : Suspected of damaging fertility or the unborn child.

Numerical measures of toxicity

Acute toxicity estimates

| Product/ingredient name | Oral (mg/kg) | Dermal (mg/kg) | Inhalation (gases) (ppm) | Inhalation (vapors) (mg/l) | Inhalation (dusts and mists) (mg/l) |
|-------------------------|--------------|----------------|--------------------------|----------------------------|-------------------------------------|
| Product as-supplied | N/A | 1807.9 | 18951.4 | 19.4 | N/A |
| 4-methylpentan-2-one | N/A | N/A | N/A | 11 | N/A |
| xylene | N/A | 1100 | 5000 | N/A | N/A |
| ethylbenzene | N/A | N/A | N/A | 11 | N/A |
| toluene | N/A | N/A | N/A | 49 | N/A |

Section 12. Ecological information

Toxicity

| Product/ingredient name | Result | Species | Exposure |
|--|------------------------------------|--|----------|
| 4-methylpentan-2-one xylene | Acute LC50 505000 µg/l Fresh water | Fish - Pimephales promelas | 96 hours |
| | Acute LC50 540000 µg/l Fresh water | Fish - Pimephales promelas | 96 hours |
| | Acute LC50 537000 µg/l Fresh water | Fish - Pimephales promelas - Juvenile (Fledgling, Hatchling, Weanling) | 96 hours |
| | Chronic NOEC 78 mg/l Fresh water | Daphnia - Daphnia magna | 21 days |
| | Chronic NOEC 168 mg/l Fresh water | Fish - Pimephales promelas - Embryo | 33 days |
| | Acute EC50 90 mg/l Fresh water | Crustaceans - Cypris subglobosa | 48 hours |
| | Acute LC50 8.5 ppm Marine water | Crustaceans - Palaemonetes pugio - Adult | 48 hours |
| | Acute LC50 8500 µg/l Marine water | Crustaceans - Palaemonetes pugio | 48 hours |
| | | | |
| | | | |

Section 12. Ecological information

| | | | |
|--------------|------------------------------------|--|----------|
| ethylbenzene | Acute LC50 16940 µg/l Fresh water | Fish - Carassius auratus | 96 hours |
| | Acute LC50 15700 µg/l Fresh water | Fish - Lepomis macrochirus - Juvenile (Fledgling, Hatchling, Weanling) | 96 hours |
| | Acute LC50 20870 µg/l Fresh water | Fish - Lepomis macrochirus | 96 hours |
| | Acute LC50 19000 µg/l Fresh water | Fish - Lepomis macrochirus | 96 hours |
| | Acute LC50 13400 µg/l Fresh water | Fish - Pimephales promelas | 96 hours |
| | Acute EC50 4600 µg/l Fresh water | Algae - Pseudokirchneriella subcapitata | 72 hours |
| | Acute EC50 5400 µg/l Fresh water | Algae - Pseudokirchneriella subcapitata | 72 hours |
| | Acute EC50 3600 µg/l Fresh water | Algae - Pseudokirchneriella subcapitata | 96 hours |
| | Acute EC50 4900 µg/l Marine water | Algae - Skeletonema costatum | 72 hours |
| | Acute EC50 7700 µg/l Marine water | Algae - Skeletonema costatum | 96 hours |
| | Acute EC50 6.53 mg/l Marine water | Crustaceans - Artemia sp. - Nauplii | 48 hours |
| | Acute EC50 13.3 mg/l Marine water | Crustaceans - Artemia sp. - Nauplii | 48 hours |
| | Acute EC50 2.97 mg/l Fresh water | Daphnia - Daphnia magna - Neonate | 48 hours |
| | Acute EC50 2.93 mg/l Fresh water | Daphnia - Daphnia magna - Neonate | 48 hours |
| | Acute LC50 8.78 mg/l Marine water | Crustaceans - Artemia sp. - Nauplii | 48 hours |
| | Acute LC50 13.3 mg/l Marine water | Crustaceans - Artemia sp. - Nauplii | 48 hours |
| | Acute LC50 40000 µg/l Marine water | Crustaceans - Cancer magister - Zoea | 48 hours |
| | Acute LC50 18.4 mg/l Fresh water | Daphnia - Daphnia magna - Neonate | 48 hours |
| toluene | Acute LC50 13.9 mg/l Fresh water | Daphnia - Daphnia magna - Neonate | 48 hours |
| | Acute LC50 75000 µg/l Fresh water | Daphnia - Daphnia magna | 48 hours |
| | Acute LC50 5100 µg/l Marine water | Fish - Menidia menidia | 96 hours |
| | Acute LC50 4.3 µl/L Marine water | Fish - Morone saxatilis - Juvenile (Fledgling, Hatchling, Weanling) | 96 hours |
| | Acute LC50 4200 µg/l Fresh water | Fish - Oncorhynchus mykiss | 96 hours |
| | Acute LC50 9090 µg/l Fresh water | Fish - Pimephales promelas | 96 hours |
| | Acute LC50 9100 µg/l Fresh water | Fish - Pimephales promelas | 96 hours |
| | Acute EC50 12500 µg/l Fresh water | Algae - Pseudokirchneriella subcapitata | 72 hours |
| | Acute EC50 16500 µg/l Fresh water | Crustaceans - Gammarus pseudolimnaeus - Adult | 48 hours |
| | Acute EC50 11600 µg/l Fresh water | Crustaceans - Gammarus pseudolimnaeus - Adult | 48 hours |
| | Acute EC50 6.88 mg/l Fresh water | Daphnia - Daphnia magna - Neonate | 48 hours |
| | Acute EC50 6.56 mg/l Fresh water | Daphnia - Daphnia magna - Neonate | 48 hours |
| | Acute EC50 19600 µg/l Fresh water | Daphnia - Daphnia magna - Larvae | 48 hours |
| | Acute EC50 6000 µg/l Fresh water | Daphnia - Daphnia magna - Juvenile (Fledgling, Hatchling, Weanling) | 48 hours |
| | Acute EC50 6780 µg/l Fresh water | Fish - Oncorhynchus mykiss - Juvenile (Fledgling, Hatchling, Weanling) | 96 hours |
| | Acute LC50 56.3 ppm Marine water | Crustaceans - Americamysis bahia | 48 hours |
| | Acute LC50 15.5 ppm Marine water | Crustaceans - Palaemonetes pugio - Adult | 48 hours |

Section 12. Ecological information

| | | | |
|--|------------------------------------|--|----------|
| | Acute LC50 15500 µg/l Marine water | Crustaceans - Palaemonetes pugio | 48 hours |
| | Acute LC50 86.3 mg/l Fresh water | Daphnia - Daphnia magna - Neonate | 48 hours |
| | Acute LC50 6410 µg/l Marine water | Fish - Oncorhynchus gorbuscha - Fry | 96 hours |
| | Acute LC50 5500 µg/l Fresh water | Fish - Oncorhynchus kisutch - Fry | 96 hours |
| | Acute LC50 5800 µg/l Fresh water | Fish - Oncorhynchus mykiss | 96 hours |
| | Acute LC50 6780 µg/l Fresh water | Fish - Oncorhynchus mykiss - Juvenile (Fledgling, Hatchling, Weanling) | 96 hours |
| | Chronic NOEC 2 mg/l Fresh water | Daphnia - Daphnia magna | 21 days |
| | Chronic NOEC 1000 µg/l Fresh water | Daphnia - Daphnia magna | 21 days |

Persistence and degradability

Not available.

Bioaccumulative potential

| Product/ingredient name | LogP _{ow} | BCF | Potential |
|--------------------------|--------------------|-------------|-----------|
| 4-methylpentan-2-one | 1.9 | - | low |
| xylene | 3.12 | 8.1 to 25.9 | low |
| ethyl 3-ethoxypropionate | 1.47 | - | low |
| ethylbenzene | 3.6 | - | low |
| toluene | 2.73 | 90 | low |

Mobility in soil

Soil/water partition coefficient (K_{oc}) : Not available.

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations






Disposal methods : The generation of waste should be avoided or minimized wherever possible. 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. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. 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.

United States - RCRA Toxic hazardous waste "U" List

| Ingredient | CAS # | Status | Reference number |
|--------------------------------|-----------|--------|------------------|
| 4-methylpentan-2-one xylene | 108-10-1 | Listed | U161 |
| | 1330-20-7 | Listed | U239 |

Section 14. Transport information

The information provided in section 14 is based on a bulk package shipment via ground transport in North America. All shippers are responsible for ensuring the proper transportation classification and package/container requirements are followed for the relevant mode of transport.

| | DOT Classification | TDG Classification | Mexico Classification | IMDG | IATA |
|----------------------------|--|--|--|--|--|
| UN number | UN1263 | UN1263 | UN1263 | UN1263 | UN1263 |
| UN proper shipping name | PAINT RELATED MATERIAL | PAINT RELATED MATERIAL | PAINT RELATED MATERIAL | PAINT RELATED MATERIAL | PAINT RELATED MATERIAL |
| Transport hazard class(es) | 3  | 3  | 3  | 3  | 3  |
| Packing group | II | II | II | II | II |
| Environmental hazards | No. | No. | No. | No. | No. |

Additional information

- DOT Classification** : **Reportable quantity** 379.03 lbs / 172.08 kg [53.797 gal / 203.64 L]. Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements.
- TDG Classification** : Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.18-2.19 (Class 3).
- IMDG** : **Emergency schedules** F-E, _S-E_

Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according to IMO instruments : Not available.

Section 15. Regulatory information

- U.S. Federal regulations** : **TSCA 5(a)2 final significant new use rules:** No products found.
TSCA 5(e) substance consent order: No products found.
TSCA 8(a) PAIR: octamethylcyclotetrasiloxane; decamethylcyclopentasiloxane
TSCA 8(a) CDR Exempt/Partial exemption: Not determined
United States inventory (TSCA 8b): All components are active or exempted.
Clean Water Act (CWA) 307: ethylbenzene; toluene
Clean Water Act (CWA) 311: xylene; ethylbenzene; toluene
- Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)** : Listed
- Clean Air Act Section 602 Class I Substances** : Not listed
- Clean Air Act Section 602 Class II Substances** : Not listed
- DEA List I Chemicals (Precursor Chemicals)** : Not listed

Section 15. Regulatory information

DEA List II Chemicals : Listed
(Essential Chemicals)

SARA 302/304

Composition/information on ingredients

No products were found.

SARA 304 RQ : Not applicable.

SARA 311/312

Classification : FLAMMABLE LIQUIDS - Category 2
ACUTE TOXICITY (dermal) - Category 4
ACUTE TOXICITY (inhalation) - Category 4
SKIN IRRITATION - Category 2
EYE IRRITATION - Category 2A
CARCINOGENICITY - Category 2
TOXIC TO REPRODUCTION - Category 2
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2
ASPIRATION HAZARD - Category 1

Composition/information on ingredients

| Name | % | Classification |
|--------------------------|-----------|--|
| 4-methylpentan-2-one | ≥50 - ≤75 | FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (inhalation) - Category 4 EYE IRRITATION - Category 2A CARCINOGENICITY - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 |
| xylene | ≥25 - ≤45 | FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 ASPIRATION HAZARD - Category 1 |
| ethyl 3-ethoxypropionate | ≥10 - ≤25 | FLAMMABLE LIQUIDS - Category 3 |
| ethylbenzene | ≤10 | FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (inhalation) - Category 4 CARCINOGENICITY - Category 2 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 ASPIRATION HAZARD - Category 1 |
| toluene | ≤0.3 | FLAMMABLE LIQUIDS - Category 2 SKIN IRRITATION - Category 2 TOXIC TO REPRODUCTION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 ASPIRATION HAZARD - Category 1 |

SARA 313

Section 15. Regulatory information

| | Product name | CAS number | % |
|---------------------------------|----------------------|------------|-----------|
| Form R - Reporting requirements | 4-methylpentan-2-one | 108-10-1 | ≥50 - ≤75 |
| | xylene | 1330-20-7 | ≥25 - ≤45 |
| | ethylbenzene | 100-41-4 | ≤10 |
| Supplier notification | 4-methylpentan-2-one | 108-10-1 | ≥50 - ≤75 |
| | xylene | 1330-20-7 | ≥25 - ≤45 |
| | ethylbenzene | 100-41-4 | ≤10 |

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

State regulations

- Massachusetts : The following components are listed: METHYL ISOBUTYL KETONE; XYLENE; DIMETHYLBENZENE
- New York : The following components are listed: Methyl isobutyl ketone; Xylene mixed
- New Jersey : The following components are listed: METHYL ISOBUTYL KETONE; XYLENES; BENZENE, DIMETHYL-
- Pennsylvania : The following components are listed: 2-PENTANONE, 4-METHYL-; BENZENE, DIMETHYL-

California Prop. 65

 **WARNING:** Cancer and Reproductive Harm - www.P65Warnings.ca.gov.

| Ingredient name | No significant risk level | Maximum acceptable dosage level | Type of toxicity |
|----------------------|---------------------------|---------------------------------|-----------------------|
| 4-methylpentan-2-one | - | - | Cancer, Developmental |
| ethylbenzene | Yes. | - | Cancer |
| toluene | - | Yes. | Developmental |

Inventory list

- Australia : All components are listed or exempted.
- Canada : All components are listed or exempted.
- China : All components are listed or exempted.
- Eurasian Economic Union : **Russian Federation inventory:** Not determined.
- Japan : **Japan inventory (CSCL):** All components are listed or exempted.
Japan inventory (ISHL): All components are listed or exempted.
- New Zealand : All components are listed or exempted.
- Philippines : All components are listed or exempted.
- Republic of Korea : All components are listed or exempted.
- Taiwan : All components are listed or exempted.
- Thailand : Not determined.
- Turkey : Not determined.
- United States : All components are active or exempted.
- Viet Nam : Not determined.

Section 16. Other information

Procedure used to derive the classification

Section 16. Other information

| Classification | Justification |
|--|-----------------------|
| FLAMMABLE LIQUIDS - Category 2 | On basis of test data |
| ACUTE TOXICITY (dermal) - Category 4 | Calculation method |
| ACUTE TOXICITY (inhalation) - Category 4 | Calculation method |
| SKIN IRRITATION - Category 2 | Calculation method |
| EYE IRRITATION - Category 2A | Calculation method |
| CARCINOGENICITY - Category 2 | Calculation method |
| TOXIC TO REPRODUCTION - Category 2 | Calculation method |
| SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 | Calculation method |
| SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 | Calculation method |
| SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 | Calculation method |
| ASPIRATION HAZARD - Category 1 | Calculation method |

History

| | |
|---------------------------------|--|
| Date of printing | : 12/11/2024 |
| Date of issue/ Date of revision | : 8/8/2024 |
| Date of previous issue | : 7/9/2024 |
| Version | : 1.01 |
| Key to abbreviations | : ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Intermediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) N/A = Not available SGG = Segregation Group UN = United Nations |

Indicates information that has changed from previously issued version.

Notice to reader

FOR PROFESSIONAL USE ONLY

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 this product must determine for themselves, by preliminary tests or otherwise, the suitability of this product for their purposes. 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 Safety 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. The application, use and processing of AkzoNobel's products and the products manufactured by Buyer on the basis of AkzoNobel's technical advice are beyond AkzoNobel's control and, therefore, entirely Buyer's own responsibility. AkzoNobel makes no warranty as to accuracy and/or sufficiency of such information and/or suggestions, as to the product's merchantability or fitness for any particular purpose, or that any suggested use will not infringe any patent. Nothing contained herein shall be construed as granting or extending any license under any patent. 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 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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