

SS4044P

SAFETY DATA SHEET

1. Identification

Product identifier: SS4044P

Other means of identification

Synonyms: Silicone primer solution

Recommended use and restriction on use

Recommended use: Primer

Restrictions on use: Not known.

Manufacturer/Importer/Distributor Information : Momentive Performance Materials LLC
260 Hudson River Road
Waterford NY 12188

Contact person : commercial.services@momentive.com

Telephone : General information
+1-800-295-2392

Emergency telephone number
Supplier : CHEMTREC
1-800-424-9300

2. Hazard(s) identification

Hazard Classification

Physical Hazards

Flammable liquids Category 2

Health Hazards

Skin Corrosion/Irritation Category 2
Serious Eye Damage/Eye Irritation Category 2A
Specific Target Organ Toxicity - Single Exposure Category 3¹
Specific Target Organ Toxicity - Repeated Exposure Category 2²
Aspiration Hazard Category 1

Target Organs

1. Narcotic effect., Respiratory tract irritation.
2. Liver, Kidney, hearing

Label Elements

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Hazard Symbol:



Signal Word: Danger

Hazard Statement: H225; Highly flammable liquid and vapor.
H315; Causes skin irritation.
H319; Causes serious eye irritation.
H335; May cause respiratory irritation.
H336; May cause drowsiness or dizziness.
H373; May cause damage to organs through prolonged or repeated exposure.
H304; May be fatal if swallowed and enters airways.

Precautionary Statements

Prevention: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Ground and bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use non-sparking tools. Take action to prevent static discharges. Wear protective gloves/protective clothing/eye protection/face protection. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Do not breathe dust/fume/gas/mist/vapors/spray.

Response: IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. If skin irritation occurs: Get medical advice/attention. IF SWALLOWED: Immediately call a POISON CENTER/doctor/... Do NOT induce vomiting. Call a POISON CENTER/doctor if you feel unwell. Specific treatment (see on this label). Take off contaminated clothing. In case of fire: Use alcohol resistant foam to extinguish.

Storage: Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up.

Disposal: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

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Other hazards which do not result in GHS classification:

Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment. Sparks may ignite liquid and vapor. May cause flash fire or explosion.

3. Composition/information on ingredients

Mixtures

| Chemical Identity | CAS number | Content in percent (%)* | Notes |
|---------------------|------------|-------------------------|---|
| Acetone | 67-64-1 | 20 - <50% | # This substance has workplace exposure limit(s). |
| 2-Propanol | 67-63-0 | 20 - <50% | # This substance has workplace exposure limit(s). |
| Xylene | 1330-20-7 | 10 - <20% | # This substance has workplace exposure limit(s). |
| Ethylbenzene | 100-41-4 | 5 - <10% | # This substance has workplace exposure limit(s). |
| Tetraethyl Silicate | 78-10-4 | 1 - <5% | # This substance has workplace exposure limit(s). |
| n-BUTANOL | 71-36-3 | 1 - <3% | # This substance has workplace exposure limit(s). |

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

4. First-aid measures

Ingestion:

Rinse mouth with water. Do not induce vomiting. Seek medical attention. Never give liquid to an unconscious person.

Inhalation:

Move into fresh air and keep at rest. If breathing has stopped, trained personnel should begin artificial respiration immediately and if the heart has stopped, trained personnel should begin cardiopulmonary resuscitation immediately.
Get medical attention.

Skin Contact:

Flush contaminated area with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 15 minutes. Get medical attention. Wash contaminated clothing before reuse.

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Eye contact: Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Continue to rinse for at least 15 minutes. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and delayed

Symptoms: No data available.

Hazards: This product is not expected to produce adverse effects under normal conditions of use and appropriate personal hygiene.

Indication of immediate medical attention and special treatment needed

Treatment: Treatment is symptomatic and supportive.

5. Fire-fighting measures

General Fire Hazards: Do not use water jet as an extinguisher, as this will spread the fire. Use water spray to keep fire-exposed containers cool.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media: Alcohol resistant foam. Carbon dioxide Dry chemical.

Unsuitable extinguishing media: Avoid water in straight hose stream; will scatter and spread fire.

Specific hazards arising from the chemical: Vapors are flammable and heavier than air. Vapors may travel across the ground and reach remote ignition sources causing a flashback fire danger. Ground container and transfer equipment to eliminate static electric sparks.

Special protective equipment and precautions for firefighters

Special fire fighting procedures: Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges. Product may charge electrostatically during pouring or filling. All equipment used when handling the product must be grounded.

Special protective equipment for fire-fighters: Firefighters must wear NIOSH/MSHA approved positive pressure self-contained breathing apparatus with full face mask and full protective clothing.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: Avoid contact with eyes, skin, and clothing. Keep out of reach of children. Attention: Not for injection into humans.

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| Methods and material for containment and cleaning up: | Warn other workers of spill. Wear proper protective equipment as specified in the protective equipment section. Wipe, scrape, or soak up in an inert material and put in a container intended for flammable materials for disposal. |
| Notification Procedures: | ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). |
| Environmental Precautions: | Avoid discharge into drains, water courses or onto the ground. |

7. Handling and storage

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| Precautions for safe handling: | Sensitivity to static discharge is expected; material has a flash point below 200 F. Do not breathe vapor/spray. Do not taste or swallow. Avoid contact with eyes, skin, and clothing. See Section 8 of the SDS for Personal Protective Equipment. Wash hands after handling. Material can accumulate static charges which may cause an electrical spark (ignition source). Use proper bonding and/or grounding procedures. |
| Conditions for safe storage, including any incompatibilities: | Keep away from heat, sparks and open flame. Keep container closed. Store in original container. |

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

| Chemical Identity | Type | Exposure Limit Values | Source |
|-------------------|---------|-----------------------|--|
| Acetone | TWA | 250 ppm | US. ACGIH Threshold Limit Values, as amended (03 2015) |
| | STEL | 500 ppm | US. ACGIH Threshold Limit Values, as amended (03 2015) |
| | REL | 250 ppm 590 mg/m3 | US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2010) |
| | PEL | 1,000 ppm 2,400 mg/m3 | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (02 2006) |
| | TWA | 750 ppm 1,800 mg/m3 | US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989) |
| | STEL | 1,000 ppm 2,400 mg/m3 | US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989) |
| | TWA | 750 ppm 1,800 mg/m3 | US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A, as amended (06 2008) |
| | Ceiling | 3,000 ppm | US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants, as amended (01 2015) |
| | STEL | 750 ppm 1,780 mg/m3 | US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants, as amended (01 2015) |
| | TWA PEL | 500 ppm 1,200 mg/m3 | US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants, as amended (01 2015) |
| | LEL | 2.5 % | US. NIOSH. Immediately Dangerous to Life or Health (IDLH) Values, as amended (10 2017) |
| | IDLH | 2,500 ppm | US. NIOSH. Immediately Dangerous to Life or Health (IDLH) Values, as amended (10 2017) |

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|------------|---------|-----------------------|--|
| | STEL | 1,000 ppm 2,400 mg/m3 | US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A, as amended (01 2019) |
| | ST ESL | 3,300 ppb | US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (06 2018) |
| | AN ESL | 4,800 µg/m3 | US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (06 2018) |
| | ST ESL | 7,800 µg/m3 | US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (06 2018) |
| | AN ESL | 2,000 ppb | US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (06 2018) |
| 2-Propanol | TWA | 200 ppm | US. ACGIH Threshold Limit Values, as amended (03 2015) |
| | STEL | 400 ppm | US. ACGIH Threshold Limit Values, as amended (03 2015) |
| | REL | 400 ppm 980 mg/m3 | US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2010) |
| | STEL | 500 ppm 1,225 mg/m3 | US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2010) |
| | PEL | 400 ppm 980 mg/m3 | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (02 2006) |
| | TWA | 400 ppm 980 mg/m3 | US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989) |
| | STEL | 500 ppm 1,225 mg/m3 | US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989) |
| | TWA | 400 ppm 980 mg/m3 | US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A, as amended (06 2008) |
| | STEL | 500 ppm 1,225 mg/m3 | US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants, as amended (01 2015) |
| | TWA PEL | 400 ppm 980 mg/m3 | US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants, as amended (01 2015) |
| | IDLH | 2,000 ppm | US. NIOSH. Immediately Dangerous to Life or Health (IDLH) Values, as amended (10 2017) |
| | LEL | 2.0 % | US. NIOSH. Immediately Dangerous to Life or Health (IDLH) Values, as amended (10 2017) |
| | STEL | 500 ppm 1,225 mg/m3 | US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A, as amended (01 2019) |
| | AN ESL | 200 ppb | US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (06 2018) |
| | ST ESL | 4,920 µg/m3 | US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (06 2018) |
| | ST ESL | 2,000 ppb | US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (06 2018) |
| | AN ESL | 492 µg/m3 | US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (06 2018) |
| Xylene | TWA | 100 ppm | US. ACGIH Threshold Limit Values, as amended (03 2015) |
| | STEL | 150 ppm | US. ACGIH Threshold Limit Values, as amended (03 2015) |
| | STEL | 150 ppm 655 mg/m3 | US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2016) |
| | REL | 100 ppm 435 mg/m3 | US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2016) |
| | PEL | 100 ppm 435 mg/m3 | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as |

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|--------------|---------|---------|--------------|--|
| | | | | amended (02 2006) |
| | TWA | 100 ppm | 435 mg/m3 | US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989) |
| | STEL | 150 ppm | 655 mg/m3 | US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989) |
| | TWA | 100 ppm | 435 mg/m3 | US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A, as amended (06 2008) |
| | TWA PEL | 100 ppm | 435 mg/m3 | US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants, as amended (01 2015) |
| | Ceiling | 300 ppm | | US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants, as amended (01 2015) |
| | STEL | 150 ppm | 655 mg/m3 | US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants, as amended (01 2015) |
| | STEL | 150 ppm | 655 mg/m3 | US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A, as amended (01 2019) |
| | AN ESL | | 180 µg/m3 | US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (06 2018) |
| | ST ESL | | 510 ppb | US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (06 2018) |
| | ST ESL | | 2,200 µg/m3 | US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (06 2018) |
| | AN ESL | | 41 ppb | US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (06 2018) |
| Ethylbenzene | TWA | 20 ppm | | US. ACGIH Threshold Limit Values, as amended (03 2015) |
| | REL | 100 ppm | 435 mg/m3 | US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2010) |
| | STEL | 125 ppm | 545 mg/m3 | US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2010) |
| | PEL | 100 ppm | 435 mg/m3 | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (02 2006) |
| | TWA | 100 ppm | 435 mg/m3 | US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989) |
| | STEL | 125 ppm | 545 mg/m3 | US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989) |
| | TWA | 100 ppm | 435 mg/m3 | US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A, as amended (06 2008) |
| | STEL | 30 ppm | 130 mg/m3 | US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants, as amended (01 2015) |
| | TWA PEL | 5 ppm | 22 mg/m3 | US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants, as amended (01 2015) |
| | LEL | | 0.8 % | US. NIOSH. Immediately Dangerous to Life or Health (IDLH) Values, as amended (10 2017) |
| | IDLH | 800 ppm | | US. NIOSH. Immediately Dangerous to Life or Health (IDLH) Values, as amended (10 2017) |
| | STEL | 125 ppm | 545 mg/m3 | US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A, as amended (01 2019) |
| | ST ESL | | 6,000 ppb | US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (06 2018) |
| | ST ESL | | 26,000 µg/m3 | US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (06 2018) |
| | AN ESL | | 570 µg/m3 | US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as |

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| | | | amended (06 2018) |
| | AN ESL | 130 ppb | US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (06 2018) |
| Tetraethyl Silicate | TWA | 10 ppm | US. ACGIH Threshold Limit Values, as amended (03 2015) |
| | REL | 10 ppm 85 mg/m3 | US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2010) |
| | PEL | 100 ppm 850 mg/m3 | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (02 2006) |
| | TWA | 10 ppm 85 mg/m3 | US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989) |
| | TWA | 10 ppm 85 mg/m3 | US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A, as amended (06 2008) |
| | TWA PEL | 10 ppm 85 mg/m3 | US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants, as amended (01 2015) |
| | IDLH | 700 ppm | US. NIOSH. Immediately Dangerous to Life or Health (IDLH) Values, as amended (10 2017) |
| | ST ESL | 100 ppb | US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (06 2018) |
| | AN ESL | 85 µg/m3 | US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (06 2018) |
| | ST ESL | 850 µg/m3 | US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (06 2018) |
| | AN ESL | 10 ppb | US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (06 2018) |
| n-BUTANOL | TWA | 20 ppm | US. ACGIH Threshold Limit Values, as amended (03 2015) |
| | Ceil_Time | 50 ppm 150 mg/m3 | US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2010) |
| | PEL | 100 ppm 300 mg/m3 | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (02 2006) |
| | Ceiling | 50 ppm 150 mg/m3 | US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989) |
| | Ceiling | 50 ppm 150 mg/m3 | US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A, as amended (06 2008) |
| | Ceiling | 50 ppm 150 mg/m3 | US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants, as amended (01 2015) |
| | IDLH | 1,400 ppm | US. NIOSH. Immediately Dangerous to Life or Health (IDLH) Values, as amended (10 2017) |
| | LEL | 1.4 % | US. NIOSH. Immediately Dangerous to Life or Health (IDLH) Values, as amended (10 2017) |
| | AN ESL | 20 ppb | US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (06 2018) |
| | ST ESL | 200 ppb | US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (06 2018) |
| | AN ESL | 61 µg/m3 | US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (06 2018) |
| | ST ESL | 610 µg/m3 | US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (06 2018) |

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Biological Limit Values

| Chemical Identity | Exposure Limit Values | Source |
|--|--------------------------------|---------------------|
| Acetone (acetone: Sampling time: End of shift.) | 25 mg/l (Urine) | ACGIH BEI (03 2015) |
| 2-Propanol (acetone: Sampling time: End of shift at end of work week.) | 40 mg/l (Urine) | ACGIH BEI (03 2015) |
| Xylene (Methylhippuric acids: Sampling time: End of shift.) | 1.5 g/g (Creatinine in urine) | ACGIH BEI (03 2015) |
| Ethylbenzene (Sum of mandelic acid and phenylglyoxylic acid: Sampling time: End of shift.) | 0.15 g/g (Creatinine in urine) | ACGIH BEI (03 2015) |

Appropriate Engineering Controls

Provide eyewash station and safety shower. General (mechanical) room ventilation is expected to be satisfactory if handled at low temperatures or in covered equipment.

Individual protection measures, such as personal protective equipment

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| General information: | General (mechanical) room ventilation is expected to be satisfactory if handled at low temperatures or in covered equipment. |
| Eye/face protection: | Monogoggles |
| Skin Protection | |
| Hand Protection: | Use chemical-resistant, impervious gloves. |
| Other: | Wear suitable protective clothing and eye/face protection. |
| Respiratory Protection: | If inhalation exposure is expected, NIOSH/MSHA approved respiratory protection should be worn. Supplied air respirators may be required for non-routine or emergency situations. Respiratory protection must be provided in accordance with OSHA regulations (see 29CFR 1910.134). |
| Hygiene measures: | Good personal hygiene is necessary. Wash hands and contaminated areas with water and soap before leaving the work site. Avoid contact with eyes, skin, and clothing. Do not eat, drink or smoke when using the product. |

9. Physical and chemical properties

Appearance

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| Physical state: | liquid |
| Form: | liquid |
| Color: | Pale yellow |
| Odor: | Pungent |
| Odor threshold: | No data available. |
| pH: | Not applicable |
| Melting point/freezing point: | Not applicable |
| Initial boiling point and boiling range: | > 36 °C |

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| Flash Point: | ca. -12 °C |
| Evaporation rate: | No data available. |
| Flammability (solid, gas): | No data available. |
| Upper/lower limit on flammability or explosive limits | |
| Flammability limit - upper (%): | 12.00 %(V) |
| Flammability limit - lower (%): | 2.10 %(V) |
| Explosive limit - upper: | No data available. |
| Explosive limit - lower: | No data available. |
| Heat of combustion: | No data available. |
| Vapor pressure: | Not applicable |
| Vapor density: | No data available. |
| Density: | ca. 0.855 g/cm ³ |
| Relative density: | 0.80 |
| Solubility(ies) | |
| Solubility in water: | hydrolyses |
| Solubility (other): | Soluble, Aromatic Solvent |
| Partition coefficient (n-octanol/water) Log Pow: | No data available. |
| Auto-ignition temperature: | > 343 °C |
| Decomposition temperature: | No data available. |
| SADT: | No data available. |
| Viscosity, dynamic: | No data available. |
| Viscosity, kinematic: | < 20.5 mm ² /s (40 °C) |
| VOC: | 624 g/l ; |

10. Stability and reactivity

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| Reactivity: | No dangerous reaction if used as recommended. |
| Chemical Stability: | Material is stable under normal conditions. |
| Possibility of hazardous reactions: | Hazardous polymerization does not occur. |
| Conditions to avoid: | Keep away from sources of ignition - No smoking. |
| Incompatible Materials: | Oxidizing agents. |
| Hazardous Decomposition Products: | Carbon dioxide Silicon dioxide. |

11. Toxicological information

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Information on likely routes of exposure

Ingestion: No data available.

Inhalation: No data available.

Skin Contact: No data available.

Eye contact: No data available.

Symptoms related to the physical, chemical and toxicological characteristics

Ingestion: No data available.

Inhalation: No data available.

Skin Contact: No data available.

Eye contact: No data available.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral

Product: ATEmix : 7,364.55 mg/kg

Dermal

Product: ATEmix : 3,577.73 mg/kg

Inhalation

Product: ATEmix: 43.63 mg/l
ATEmix : 64.63 mg/l

Repeated dose toxicity

Product: No data available.

Skin Corrosion/Irritation

Product: No data available.

Serious Eye Damage/Eye Irritation

Product: No data available.

Respiratory or Skin Sensitization

Product: No data available.

Carcinogenicity

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Product: No data available.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogenic components identified
US. National Toxicology Program (NTP) Report on Carcinogens:
No carcinogenic components identified

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended:
No carcinogenic components identified

Germ Cell Mutagenicity

In vitro
Product: No data available.

In vivo
Product: No data available.

Reproductive toxicity
Product: No data available.

Specific Target Organ Toxicity - Single Exposure
Product: No data available.

Specific Target Organ Toxicity - Repeated Exposure
Product: No data available.

Target Organs

Specific Target Organ Toxicity - Single Exposure: Narcotic effect., Respiratory tract irritation.
Specific Target Organ Toxicity - Repeated Exposure: Liver, Kidney, hearing

Aspiration Hazard
Product: No data available.

Other effects: More severe effects if alcohol is consumed., Stimulants such as epinephrine may induce ventricular fibrillation., This product contains a component that showed unexpected acute toxicity to pregnant rabbits in a gavage study conducted by the Chemical Manufacturers Association. There were no unexpected toxic effects in pregnant rats exposed in the same study. No developmental effects were noted in either study. Effect levels in rabbits were several times the maximum exposure which would occur at the TLV for this component.

Contains ethylbenzene, which has shown evidence of carcinogenic activity in animals.

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12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish

Product: No data available.

Specified substance(s):

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| Acetone | LC50 (Lepomis macrochirus, 96 h): 8,300 mg/l LC0 (Leuciscus idus, 48 h): 6,320 mg/l LC50 (Leuciscus idus, 48 h): 7,505 mg/l |
| 2-Propanol | LC50 (Leuciscus idus, 48 h): 8,970 mg/l LC50 (Pimephales promelas, 96 h): > 65,500 mg/l |
| Xylene | LC50 (Leuciscus idus, 48 h): 86 mg/l LC50 (Pimephales promelas, 96 h): 13.4 mg/l LC50 (Salmo gairdneri, 96 h): 14 mg/l |
| Ethylbenzene | LC0 (Leuciscus idus, 48 h): 26 mg/l LC100 (Leuciscus idus, 48 h): 70 mg/l LC50 (Leuciscus idus, 48 h): 44 mg/l LC50 (Salmo gairdneri, 96 h): 4.2 mg/l |
| Tetraethyl Silicate | LC100 (No data available., 24 h): 9,000 mg/l LC50 (Brachydanio rerio, 96 h): > 245 mg/l |
| n-BUTANOL | LC0 (Leuciscus idus, 48 h): > 1,000 mg/l LC50 (Leuciscus idus, 48 h): 1,520 mg/l LC50 (Pimephales promelas, 96 h): 1,730 mg/l |

Aquatic Invertebrates

Product: No data available.

Specified substance(s):

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|---------------------|---|
| 2-Propanol | EC50 (Daphnia magna, 24 h): > 10,000 mg/l EC0 (Daphnia magna): 500 mg/l |
| Xylene | EC50 (Daphnia magna, 24 h): 165 mg/l |
| Ethylbenzene | LC0 (Daphnia magna): 137 mg/l (Daphnia magna): 184 mg/l LC100 (Daphnia magna): 200 mg/l |
| Tetraethyl Silicate | EC50 (Blue Crab): 7,800 mg/l |

Chronic hazards to the aquatic environment:

Fish

Product: No data available.

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Aquatic Invertebrates

Product: No data available.

Toxicity to Aquatic Plants

Product: No data available.

Persistence and Degradability

Biodegradation

Product: No data available.

Specified substance(s):

Acetone 50 % (5 d, No data available.)
78 % (28 d, No data available.)

2-Propanol 82.5 % (5 d, No data available.)

Ethylbenzene 68 % (28 d, No data available.)

Tetraethyl Silicate 98 % (28 d, OECD-Guideline 301 A (DOC Die-Away Test)) Readily biodegradable

BOD/COD Ratio

Product: No data available.

Bioaccumulative potential

Bioconcentration Factor (BCF)

Product: No data available.

Partition Coefficient n-octanol / water (log Kow)

Product: No data available.

Mobility in soil: No data available.

Known or predicted distribution to environmental compartments

Acetone No data available.
2-Propanol No data available.
Xylene No data available.
Ethylbenzene No data available.
Tetraethyl Silicate No data available.
n-BUTANOL No data available.

Other adverse effects: No data available.

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13. Disposal considerations

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| General information: | The generation of waste should be avoided or minimized wherever possible. Do not discharge into drains, water courses or onto the ground. See Section 8 for information on appropriate personal protective equipment. This product is highly flammable. Don't use fire to cut empty container after use. |
| Disposal instructions: | Disposal should be made in accordance with federal, state and local regulations. |
| Contaminated Packaging: | Dispose of as unused product. |

14. Transport information

DOT

| | |
|----------------------------|---|
| UN Number: | UN 1993 |
| UN Proper Shipping Name: | Flammable liquids, n.o.s.(Acetone, Isopropanol) |
| Transport Hazard Class(es) | |
| Class: | 3 |
| Label(s): | 3 |
| Packing Group: | II |
| Marine Pollutant: | No |

IMDG

| | |
|----------------------------|--|
| UN Number: | UN 1993 |
| UN Proper Shipping Name: | FLAMMABLE LIQUID, N.O.S.(Acetone, Isopropanol) |
| Transport Hazard Class(es) | |
| Class: | 3 |
| Label(s): | 3 |
| EmS No.: | F-E, S-E |
| Packing Group: | II |
| Marine Pollutant: | No |
| Limited quantity | 1.00L |
| Excepted quantity | E2 |

IATA

| | |
|------------------------------|--|
| UN Number: | UN 1993 |
| Proper Shipping Name: | Flammable liquid, n.o.s.(Acetone, Isopropanol) |
| Transport Hazard Class(es): | |
| Class: | 3 |
| Label(s): | 3 |
| Packing Group: | II |
| Cargo aircraft only Packing | 364 |
| Instructions: | |
| Passenger and cargo aircraft | 364 |
| Packing Instructions: | |
| Limited quantity: | Y341 |
| Packing Instructions: | |

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Excepted quantity E2

Environmental Hazards: Not regulated.
Marine Pollutant: No

15. Regulatory information

US Federal Regulations

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

None present or none present in regulated quantities.

CERCLA Hazardous Substance List (40 CFR 302.4):

| <u>Chemical Identity</u> | <u>Reportable quantity</u> |
|--------------------------|----------------------------|
| Acetone | 5,000 lbs. |
| 2-Propanol | 100 lbs. |
| Xylene | 100 lbs. |
| Ethylbenzene | 1,000 lbs. |
| n-BUTANOL | 5,000 lbs. |

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Flammable (gases, aerosols, liquids, or solids)
Skin Corrosion or Irritation
Serious eye damage or eye irritation
Specific target organ toxicity (single or repeated exposure)
Aspiration Hazard

SARA 302 Extremely Hazardous Substance

None present or none present in regulated quantities.

SARA 304 Emergency Release Notification

None present or none present in regulated quantities.

SARA 311/312 Hazardous Chemical

| <u>Chemical Identity</u> | <u>Threshold Planning Quantity</u> |
|--------------------------|------------------------------------|
|--------------------------|------------------------------------|

SARA 313 (TRI Reporting)

| <u>Chemical Identity</u> | <u>Reporting threshold for other users</u> | <u>Reporting threshold for manufacturing and processing</u> |
|--------------------------|--|---|
| 2-Propanol | | |
| Xylene | | |
| Ethylbenzene | | |
| n-BUTANOL | | |

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

| <u>Chemical Identity</u> | <u>Reportable quantity</u> |
|--------------------------|----------------------------|
|--------------------------|----------------------------|

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Xylene
Ethylbenzene

Reportable quantity: 100 lbs.
Reportable quantity: 1,000 lbs.

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

None present or none present in regulated quantities.

US State Regulations

US. California Proposition 65



WARNING: This product can expose you to chemicals including Benzene, which is [are] known to the State of California to cause cancer and birth defects or other reproductive harm.

This product can expose you to chemicals including Ethylbenzene, which is [are] known to the State of California to cause cancer. This product can expose you to chemicals including Toluene, which is [are] known to the State of California to cause birth defects or other reproductive harm.

For more information go to www.P65Warnings.ca.gov.

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

Chemical Identity

Acetone
2-Propanol
Xylene
Polyalkylsiloxane
Ethylbenzene
Tetraethyl Silicate
n-BUTANOL

US. Massachusetts RTK - Substance List

Chemical Identity

2-Propanol
Xylene
Ethylbenzene
Tetraethyl Silicate
n-BUTANOL
Benzene

US. Pennsylvania RTK - Hazardous Substances

Chemical Identity

2-Propanol
Xylene
Ethylbenzene
Tetraethyl Silicate
n-BUTANOL

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US. Rhode Island RTK

Chemical Identity

2-Propanol

Xylene

Tetraethyl Silicate

n-BUTANOL

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Inventory Status:

| | | |
|--|--|----------------------------|
| Australia AICS: | y (positive listing) | Remarks: None. |
| Canada DSL Inventory List: | y (positive listing) | Remarks: None. |
| EU EINECS List: | y (positive listing) | Remarks: None. |
| Japan (ENCS) List: | y (positive listing) | Remarks: None. |
| China Inventory of Existing Chemical Substances: | y (positive listing) | Remarks: None. |
| Korea Existing Chemicals Inv. (KECI): | y (positive listing) | Remarks: None. |
| Philippines PICCS: | y (positive listing) | Remarks: None. |
| US TSCA Inventory: | y (positive listing) | Remarks: On TSCA Inventory |
| New Zealand Inventory of Chemicals: | n (Negative listing) | Remarks: None. |
| Taiwan. Taiwan inventory (CSNN): | y (positive listing) | Remarks: None. |
| REACH: | If purchased from Momentive Performance Materials GmbH in Leverkusen, Germany, all substances in this product have been registered by Momentive Performance Materials GmbH or upstream in our supply chain or are exempt from registration under Regulation (EC) No 1907/2006 (REACH). For polymers, this includes the constituent monomers and other reactants. | Remarks: None. |
| Canada NDSL Inventory: | Not in compliance with the inventory. | Remarks: None. |
| China Inv. Existing Chemical Substances: | On or in compliance with the inventory | Remarks: None. |
| Taiwan Chemical Substance Inventory: | On or in compliance with the inventory | Remarks: None. |
| EINECS, ELINCS or NLP: | On or in compliance with the inventory | Remarks: None. |

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

HMIS Hazard ID

| | | |
|----------------------------|---|----------|
| Health | * | 3 |
| Flammability | | 3 |
| Physical Hazards | | 0 |
| PERSONAL PROTECTION | | |

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible; *Chronic health effect

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Issue Date: 06/26/2020

Revision Date: No data available.

Version #: 3.1

Further Information: No data available.

Disclaimer:

Notice to reader

Unless otherwise specified in section 1, Momentive products are intended for use in the manufacture and/or formulation of products and are not intended for direct consumer use. These products are not intended for long-lasting (> 30 days) implantation, injection or direct ingestion into the human body, nor for use in the manufacture of multiple use contraceptives. Keep out of the reach of children.

Further Information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safehandling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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