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SAFETY DATA SHEET

In accordance with OSHA 29 CFR 1910.1200

LIQUID 1685MC
Revision Number 3

Revision date 18-Dec-2024
Supersedes date 07-Feb-2020

1. Identification

1.1. Product identifier

Product Name LIQUID 1685MC

Other means of identification
Other information Not applicable

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

Recommended use Adhesives
Restrictions on use No information available

1.3. Details of the supplier of the safety data sheet

Responsible Party
Bostik Inc.
11320 W. Watertown Plank Road
Wauwatosa, Wisconsin 53226 USA
Phone: +1(800) 726-7845 (Domestic Toll Free)
Phone: +1 (414) 774-2250 (International)

E-mail msds@bostik.com

1.4. Emergency telephone number

Emergency Telephone CHEMTREC (Chemical Transportation Emergency Center)
Chemtrec: 1-800-424-9300 (US) , 1-703-527-3887 (Outside U.S.)
Rocky Mountain Poison Center: 1-866-767-5089

2. Hazard(s) identification

2.1. Classification of the substance or mixture

Flammable liquids	Category 2
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A
Skin sensitization	Category 1
Carcinogenicity	Category 2
Reproductive toxicity	Category 2
Specific target organ toxicity (single exposure)	Category 3
Specific target organ toxicity (repeated exposure)	Category 2
Aspiration hazard	Category 1

Hazards not otherwise classified (HNOC)
Not applicable

2.2. Label elements

EMERGENCY OVERVIEW

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Danger

Hazard statements
Causes skin irritation
Causes serious eye irritation
May cause an allergic skin reaction
Suspected of causing cancer
Suspected of damaging fertility or the unborn child
May cause drowsiness or dizziness
May cause damage to organs through prolonged or repeated exposure
May be fatal if swallowed and enters airways
Highly flammable liquid and vapor



Appearance Liquid **Physical state** Liquid **Odor** Solvent

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/eye protection/face protection
Wash face, hands and any exposed skin thoroughly after handling
Contaminated work clothing must not be allowed out of the workplace
Do not breathe dust/fume/gas/mist/vapors/spray
Use only outdoors or in a well-ventilated area
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
Keep container tightly closed
Ground/bond container and receiving equipment
Use only non-sparking tools
Take precautionary measures against static discharge
Keep cool
Use explosion-proof electrical/ ventilating/ lighting/ equipment

Precautionary Statements - Response
IF exposed or concerned: Get medical advice/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/attention
If skin irritation or rash occurs: Get medical advice/attention
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower
Wash contaminated clothing before reuse
IF INHALED: Remove person to fresh air and keep comfortable for breathing
IF SWALLOWED: Immediately call a POISON CENTER or doctor
Do NOT induce vomiting
In case of fire: Use CO2, dry chemical, or foam to extinguish

Precautionary Statements - Storage
Store locked up
Store in a well-ventilated place. Keep container tightly closed

Precautionary Statements - Disposal
Dispose of contents/container to an approved waste disposal plant

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2.3. Other Information

In use, may form flammable/explosive vapor-air mixture.

3. Composition/information on ingredients

3.1. Substances

Not applicable.

Mixture

Chemical name	CAS No.	Weight-%
Toluene	108-88-3	15 - 40
Solvent naphtha, petroleum, light aliphatic	64742-89-8	10 - 30
Methyl ethyl ketone	78-93-3	10 - 30
Formaldehyde, polymer with 4-(1,1-dimethylethyl)phenol	25085-50-1	5 - <10
Xylenes (o-, m-, p- isomers)	1330-20-7	1 - <5
Silica gel, precipitated, crystalline free	112926-00-8	1 - <5
Magnesium oxide (MgO)	1309-48-4	1 - <5
Rosin	8050-09-7	0.1 - <1
Ethylbenzene	100-41-4	0.1 - <1

**The exact percentage (concentration) of composition has been withheld as a trade secret*

4. First-aid measures

4.1. Description of first aid measures

General advice Show this safety data sheet to the doctor in attendance. IF exposed or concerned: Get medical advice/attention. Immediate medical attention is required.

Inhalation Remove to fresh air. Aspiration into lungs can produce severe lung damage. If breathing has stopped, give artificial respiration. Get medical attention immediately. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. If breathing is difficult, (trained personnel should) give oxygen. Get immediate medical attention. Delayed pulmonary edema may occur.

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

Skin contact Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a physician.

Ingestion Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. ASPIRATION HAZARD IF SWALLOWED - CAN ENTER LUNGS AND CAUSE DAMAGE. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. Get immediate medical attention.

Self-protection of the first aider Remove all sources of ignition. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Use

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personal protective equipment as required. See section 8 for more information. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Avoid contact with skin, eyes or clothing.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms Itching. Rashes. Hives. Difficulty in breathing. Coughing and/ or wheezing. Dizziness. May cause redness and tearing of the eyes. Burning sensation. Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.

Effects of Exposure No information available.

4.3. Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically. May cause sensitization in susceptible persons.

5. Fire-Fighting Measures

5.1. Extinguishing media

Suitable Extinguishing Media
Large Fire Dry chemical. Carbon dioxide (CO2). Water spray. Alcohol resistant foam. CAUTION: Use of water spray when fighting fire may be inefficient.

Unsuitable extinguishing media Do not scatter spilled material with high pressure water streams.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the chemical Risk of ignition. Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Product is or contains a sensitizer. May cause sensitization by skin contact.

Hazardous combustion products Carbon oxides. Hydrocarbons. Hydrogen chloride.

Explosion data
Sensitivity to mechanical impact None.

Sensitivity to static discharge Yes.

5.3. Advice for firefighters

Special protective equipment and precautions for fire-fighters As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Use personal protective equipment as required. Evacuate personnel to safe areas. Do not touch or walk through spilled material. Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Avoid contact with skin, eyes or clothing. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. See section 8 for more information.

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Other information Ventilate the area. Refer to protective measures listed in Sections 7 and 8.

6.2. Environmental precautions

Environmental precautions Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point. See Section 12 for additional Ecological Information.

6.3. Methods and material for containment and cleaning up

Methods for containment Stop leak if you can do it without risk. Do not touch or walk through spilled material. A vapor suppressing foam may be used to reduce vapors. Dike far ahead of spill to collect runoff water. Keep out of drains, sewers, ditches and waterways. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.

Methods for cleaning up Use personal protective equipment as required. Take precautionary measures against static discharges. Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers. Clean contaminated surface thoroughly.

Reference to other sections See section 8 for more information. See section 13 for more information.

7. Handling and storage

7.1. Precautions for safe handling

Advice on safe handling Use personal protection equipment. Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Avoid contact with skin, eyes or clothing. Wash thoroughly after handling. Do not breathe dust/fume/gas/mist/vapors/spray. In case of insufficient ventilation, wear suitable respiratory equipment. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use grounding and bonding connection when transferring this material to prevent static discharge, fire or explosion. Use with local exhaust ventilation. Use spark-proof tools and explosion-proof equipment. Keep in an area equipped with sprinklers. Use according to package label instructions. Take off contaminated clothing and wash before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labeled containers. Do not store near combustible materials. Keep in an area equipped with sprinklers. Store in accordance with the particular national regulations. Store in accordance with local regulations. Store locked up. Keep out of the reach of children. Store away from other materials.

Recommended storage temperature Keep at temperatures between 41 and 77 °F / 5 and 25 °C.

7.3 References to other sections

Reference to other sections Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION
See Section 12: ECOLOGICAL INFORMATION

8. Exposure Controls/Personal Protection

8.1. Control parameters

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Exposure Limits

This product contains substances which in their raw state are powder form, however in this product they are in a non-respirable form. Inhalation of powder/dust particles is unlikely to occur from exposure to this product.

Chemical name	ACGIH TLV	OSHA PEL	NIOSH
Toluene 108-88-3	TWA: 20 ppm Ototoxicant - potential to cause hearing disorders	TWA: 200 ppm (vacated) TWA: 100 ppm (vacated) TWA: 375 mg/m³ (vacated) STEL: 150 ppm (vacated) STEL: 560 mg/m³ Ceiling: 300 ppm	IDLH: 500 ppm TWA: 100 ppm TWA: 375 mg/m³ STEL: 150 ppm STEL: 560 mg/m³
Solvent naphtha, petroleum, light aliphatic 64742-89-8	TWA: 100 ppm Sk*	-	-
Methyl ethyl ketone 78-93-3	TWA: 75 ppm STEL: 150 ppm Sk*	TWA: 200 ppm TWA: 590 mg/m³ (vacated) TWA: 200 ppm (vacated) TWA: 590 mg/m³ (vacated) STEL: 300 ppm (vacated) STEL: 885 mg/m³	IDLH: 3000 ppm TWA: 200 ppm TWA: 590 mg/m³ STEL: 300 ppm STEL: 885 mg/m³
Xylenes (o-, m-, p- isomers) 1330-20-7	TWA: 20 ppm	TWA: 100 ppm TWA: 435 mg/m³ (vacated) TWA: 100 ppm (vacated) TWA: 435 mg/m³ (vacated) STEL: 150 ppm (vacated) STEL: 655 mg/m³	-
Silica gel, precipitated, crystalline free 112926-00-8	-	TWA: 20 mppcf TWA: (80)/(% SiO2) mg/m³ (vacated) TWA: 6 mg/m³ : (80)/(% SiO2) mg/m³ TWA	-
Magnesium oxide (MgO) 1309-48-4	TWA: 10 mg/m³ inhalable particulate matter	TWA: 15 mg/m³ fume, total particulate (vacated) TWA: 10 mg/m³ fume and total particulate	IDLH: 750 mg/m³ fume
Rosin 8050-09-7	TWA: 0.001 mg/m³ total resin acids inhalable particulate matter dermal sensitizer;respiratory sensitizer	(vacated) TWA: 0.1 mg/m³ Formaldehyde	TWA: 0.1 mg/m³ Formaldehyde
Ethylbenzene 100-41-4	TWA: 20 ppm Ototoxicant - potential to cause hearing disorders	TWA: 100 ppm TWA: 435 mg/m³ (vacated) TWA: 100 ppm (vacated) TWA: 435 mg/m³ (vacated) STEL: 125 ppm (vacated) STEL: 545 mg/m³	IDLH: 800 ppm TWA: 100 ppm TWA: 435 mg/m³ STEL: 125 ppm STEL: 545 mg/m³

Chemical name	Argentina	Brazil	S.D. 594/1999	Colombia
Toluene 108-88-3	TWA: 50 ppm Sk*	TWA: 78 ppm TWA: 290 mg/m³ Skin	LPP: 87 ppm LPP: 328 mg/m³ LPT: 150 ppm LPT: 560 mg/m³ Sk*	TWA: 20ppm
Solvent naphtha, petroleum, light aliphatic 64742-89-8	-	TWA: 100 ppm	-	-

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Methyl ethyl ketone 78-93-3	TWA: 200 ppm STEL: 300 ppm	TWA: 155 ppm TWA: 460 mg/m³ STEL: 150 ppm	LPP: 175 ppm LPP: 516 mg/m³ LPT: 300 ppm LPT: 885 mg/m³	STEL: 300ppm TWA: 200ppm
Xylenes (o-, m-, p- isomers) 1330-20-7	TWA: 100 ppm STEL: 150 ppm	TWA: 78 ppm TWA: 340 mg/m³ Skin	LPP: 87 ppm LPP: 380 mg/m³ LPT: 150 ppm LPT: 651 mg/m³	TWA: 20ppm
Silica gel, precipitated, crystalline free 112926-00-8	TWA: 10 mg/m³	-	LPP: 5.3 mg/m³	-
Magnesium oxide (MgO) 1309-48-4	TWA: 10 mg/m³	TWA: 10 mg/m³	-	TWA: 10mg/m³
Rosin 8050-09-7	Sensitizer	-	-	TWA: 0.001mg/m³
Ethylbenzene 100-41-4	TWA: 100 ppm STEL: 125 ppm	TWA: 78 ppm TWA: 340 mg/m³	LPP: 87 ppm LPP: 380 mg/m³ LPT: 125 ppm LPT: 543 mg/m³	TWA: 20ppm

Chemical name	Costa Rica	Peru	Uruguay	Venezuela
Toluene 108-88-3	TWA: 20ppm	TWA: 50ppm TWA: 188mg/m³	20 ppm TWA	Skin TWA: 20 ppm
Methyl ethyl ketone 78-93-3	STEL: 300ppm TWA: 200ppm	STEL: 300ppm STEL: 885mg/m³ TWA: 200ppm TWA: 590mg/m³	300 ppm STEL 200 ppm TWA	STEL: 300 ppm TWA: 200 ppm
Xylenes (o-, m-, p- isomers) 1330-20-7	STEL: 150ppm TWA: 100ppm	STEL: 150ppm STEL: 651mg/m³ TWA: 100ppm TWA: 434mg/m³	20 ppm TWA	Skin STEL: 150 ppm TWA: 100 ppm
Silica gel, precipitated, crystalline free 112926-00-8	-	TWA: 10mg/m³	-	TWA: 10 mg/m³
Magnesium oxide (MgO) 1309-48-4	TWA: 10mg/m³	TWA: 10mg/m³	10 mg/m³ TWA (inhalable particulate matter)	TWA: 10 mg/m³
Rosin 8050-09-7	-	-	0.001 mg/m³ TWA (inhalable particulate matter, as total resin acids)	TWA:
Ethylbenzene 100-41-4	TWA: 20ppm	STEL: 125ppm STEL: 543mg/m³ TWA: 100ppm TWA: 434mg/m³	20 ppm TWA	Skin STEL: 125 ppm TWA: 100 ppm

8.2. Exposure controls

Appropriate engineering controls

Engineering controls Showers
Eyewash stations
Ventilation systems.

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Individual protection measures, such as personal protective equipment

Eye/face protection	Tight sealing safety goggles. Face protection shield.
Hand protection	Wear suitable gloves. Impervious gloves.
Skin and body protection	Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron. Antistatic boots.
Respiratory protection	Use appropriate respiratory protection. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
General hygiene considerations	Wear suitable gloves and eye/face protection. Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid contact with skin, eyes or clothing. Wash hands before breaks and immediately after handling the product. Take off contaminated clothing and wash it before reuse. Contaminated work clothing must not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended.

9. Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid
Appearance	Liquid
Color	Brown
Odor	Solvent
Odor threshold	No information available

Property	Values	Remarks • Method
pH	No data available	Not applicable Insoluble in water
pH (as aqueous solution)	No data available	None known
Melting point / freezing point	No data available	None known
Initial boiling point and boiling range	> 79.6 °C / 175.3 °F	
Flash point	-8.3 °C / 17.1 °F	
Evaporation rate	No data available	None known
Flammability	No data available	Flammable liquid
Flammability Limit in Air		None known
Upper flammability or explosive limits	No data available	
Lower flammability or explosive limits	No data available	
Vapor pressure	<110 kPa	None known
Relative vapor density	No data available	None known
Relative density	No data available	None known
Water solubility	Insoluble in water	None known
Solubility(ies)	No data available	None known
Partition coefficient	No data available	None known
Autoignition temperature	No data available	None known
Decomposition temperature	No data available	None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	No data available	None known

9.2. Other information

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Explosive properties	No information available
Oxidizing properties	No information available
Solvent content (%)	No information available
Solid content (%)	27.3
Softening point	No information available
Molecular weight	No information available
VOC content	No information available
Density	.900 g/ml
Bulk density	No information available

10. Stability and Reactivity

10.1. Reactivity

Reactivity No information available.

10.2. Chemical stability

Chemical stability Stable under normal conditions.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

10.4. Conditions to avoid

Conditions to avoid Heat, flames and sparks.

10.5. Incompatible materials

Incompatible materials Strong acids. Strong bases. Strong oxidizing agents.

10.6. Hazardous decomposition products

Hazardous decomposition products Carbon oxides

11. Toxicological information

11.1. Information on toxicological effects

Product Information

Inhalation Aspiration into lungs can produce severe lung damage. May cause pulmonary edema. Pulmonary edema can be fatal. May cause irritation of respiratory tract. May cause drowsiness or dizziness.

Eye contact Causes serious eye irritation. May cause redness, itching, and pain.

Skin contact May cause sensitization by skin contact. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. Repeated exposure may cause skin dryness or cracking. Causes skin irritation.

Ingestion Potential for aspiration if swallowed. May cause lung damage if swallowed. Aspiration may cause pulmonary edema and pneumonitis. May be fatal if swallowed and enters airways. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Symptoms related to the physical, chemical and toxicological characteristics

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Symptoms Itching. Rashes. Hives. Difficulty in breathing. Coughing and/ or wheezing. Dizziness. Redness. May cause redness and tearing of the eyes. Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.

Acute toxicity
Numerical measures of toxicity

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral)	14,224.50 mg/kg
ATEmix (dermal)	12,895.00 mg/kg
ATEmix (inhalation-gas)	180,816.5950 ppm
ATEmix (inhalation-dust/mist)	129.540 mg/l
ATEmix (inhalation-vapor)	327.60 mg/l

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Toluene 108-88-3	=5580 mg/kg (Rattus)	= 12000 mg/kg (Oryctolagus cuniculus)	>20 mg/L (Rattus) 4 h
Solvent naphtha, petroleum, light aliphatic 64742-89-8	LD50> 8.000 mg/kg(Rattus)	= 3000 mg/kg (Oryctolagus cuniculus)	-
Methyl ethyl ketone 78-93-3	=2483 mg/kg (Rattus)	= 5000 mg/kg (Oryctolagus cuniculus)	=11700 ppm (Rattus) 4 h
Formaldehyde, polymer with 4-(1,1-dimethylethyl)phenol 25085-50-1	>2000 mg/Kg (Rattus)	>2000 mg/Kg (Rattus)	-
Xylenes (o-, m-, p- isomers) 1330-20-7	=3500 mg/kg (Rattus)	> 1700 mg/kg (Oryctolagus cuniculus) > 4350 mg/kg (Oryctolagus cuniculus)	= 11 mg/L (ATE)
Silica gel, precipitated, crystalline free 112926-00-8	LD50 >10000 mg/Kg (Rattus)	>5000 mg/kg (Oryctolagus cuniculus)	>2.2 mg/L (Rattus) 1 h
Magnesium oxide (MgO) 1309-48-4	3800 mg/kg (Rattus)	-	-
Rosin 8050-09-7	>2000 mg/Kg (Rattus)	> 2500 mg/kg (Oryctolagus cuniculus)	=1.5 mg/L (Rattus) 4 h
Ethylbenzene 100-41-4	=3500 mg/kg (Rattus)	= 15400 mg/kg (Oryctolagus cuniculus)	=17.6 mg/L (Rattus) 4 h

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation Causes skin irritation.

Toluene (108-88-3)

Method	Species	Exposure route	Effective dose	Exposure time	Results
Regulation (EC) No. 440/2008, Annex, B.4	Rabbit	Dermal			Irritant

Serious eye damage/eye irritation Causes serious eye irritation.

Methyl ethyl ketone (78-93-3)

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Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD Test No. 405: Acute Eye Irritation/Corrosion	Rabbit	eye			irritant

Respiratory or skin sensitization May cause an allergic skin reaction.

Germ cell mutagenicity Based on available data, the classification criteria are not met.

Toluene (108-88-3)

Method	Species	Results
Regulation (EC) No. 440/2008, Annex, B.13/14 (Ames test)	Salmonella typhimurium	Not mutagenic
OECD Test No. 476: In Vitro Mammalian Cell Gene Mutation Tests using the Hprt and xprt genes	Mouse	Not mutagenic

Carcinogenicity Suspected of causing cancer. Contains a known or suspected carcinogen. Classification based on data available for ingredients.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	ACGIH	IARC	NTP	OSHA
Toluene 108-88-3	-	Group 3	-	-
Solvent naphtha, petroleum, light aliphatic 64742-89-8	A3	-	-	-
Xylenes (o-, m-, p- isomers) 1330-20-7	-	Group 3	-	-
Silica gel, precipitated, crystalline free 112926-00-8	-	Group 3	-	-
Ethylbenzene 100-41-4	A3	Group 2B	-	X

Legend
ACGIH (American Conference of Governmental Industrial Hygienists)
A3 - Animal Carcinogen
IARC (International Agency for Research on Cancer)
Group 2B - Possibly Carcinogenic to Humans
Group 3 - Not Classifiable as to Carcinogenicity in Humans
Occupational Safety and Health Administration of the US Department of Labor
X - Present

Reproductive toxicity Contains a known or suspected reproductive toxin. Suspected of damaging fertility or the unborn child. Classification based on data available for ingredients.

Toluene (108-88-3)

Method	Species	Results
OECD 407	in vivo	Reproductive toxicant

STOT - single exposure May cause drowsiness or dizziness.

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Methyl ethyl ketone (78-93-3)

Method	Species	Exposure route	Effective dose	Exposure time	Results
Experiences made in practice					May cause drowsiness or dizziness Causes central nervous system depression

STOT - repeated exposure May cause damage to organs through prolonged or repeated exposure.

Toluene (108-88-3)

Method	Species	Exposure route	Effective dose	Exposure time	Results
Regulation (EC) No. 440/2008, Annex, B.26	Rat, male, female	Oral		91 days	NOAEL: 625 mg/kg
OECD Test No. 453: Combined Chronic Toxicity/Carcinogenicity Studies	Rat, male, female	Inhalation, vapor			NOAEL: 1.131 mg/l

Methyl ethyl ketone (78-93-3)

Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD Test No. 413: Subchronic Inhalation Toxicity: 90-day Study	Rat	Inhalation vapor	1254, 2518, 5041 ppm/6h/d	90 days	NOAEC 5014 ppm

Aspiration hazard May be fatal if swallowed and enters airways.

Other adverse effects No information available.

Interactive effects No information available.

12. Ecological information

12.1. Toxicity

Ecotoxicity

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Toluene 108-88-3	EC50 72 h = 12.5 mg/L (Pseudokirchneriella subcapitata)	LC50 96 h 5.89 - 7.81 mg/L (Oncorhynchus mykiss flow-through) LC50 96 h = 5.8 mg/L (Oncorhynchus mykiss semi-static)	EC50 = 19.7 mg/L 30 min	EC50: =11.5mg/L (48h, Daphnia magna) EC50: 5.46 - 9.83mg/L (48h, Daphnia magna)
Solvent naphtha, petroleum, light aliphatic 64742-89-8	EC50: =4700mg/L (72h, Pseudokirchneriella subcapitata)	-	-	-
Methyl ethyl ketone 78-93-3	EC50=1972 mg/l (Pseudokirchneriella subcapitata)	LC50: 3130 - 3320mg/L (96h, Pimephales promelas)	EC50 = 3403 mg/L 30 min EC50 = 3426 mg/L 5 min	EC50 48 h > 308 mg/L (Daphnia magna)
Xylenes (o-, m-, p- isomers) 1330-20-7	-	LC50 96 h 2.6 mg/L (Oncorhynchus mykiss) (OECD 203)	EC50 = 0.0084 mg/L 24 h	EC50 48 h = 3.4 mg/L (Dappnia magna)
Silica gel, precipitated, crystalline free	-	CL50 (96h) >=10000 mg/l (Brachydanio rerio)	-	CE50 (24h) >=1000 mg/L (Daphnia magna)

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112926-00-8				
Magnesium oxide (MgO) 1309-48-4	-	-	-	48H 190mg/L Daphnia Magna
Rosin 8050-09-7	EC50: =400mg/L (72h, Desmodesmus subspicatus)	LC50 (96h) >10mg/L (Danio rerio)	EC50 = 31.5 mg/L 30 min	EC50 48 h >100 mg/L (Daphnia magna)
Ethylbenzene 100-41-4	EC50 72 h 2.6 - 11.3 mg/L (Pseudokirchneriella subcapitata)	LC50 96 h = 4.2 mg/L (Oncorhynchus mykiss semi-static)	EC50 = 9.68 mg/L 30 min EC50 = 96 mg/L 24 h	EC50: 1.8 - 2.4mg/L (48h, Daphnia magna)

12.2. Persistence and degradability

Persistence and degradability No information available.

12.3. Bioaccumulative potential

Bioaccumulation There is no data for this product.

Component Information

Chemical name	Partition coefficient
Toluene 108-88-3	2.73
Methyl ethyl ketone 78-93-3	0.3
Xylenes (o-, m-, p- isomers) 1330-20-7	3.15
Rosin 8050-09-7	7.7
Ethylbenzene 100-41-4	3.6

12.4. Mobility in soil

Mobility No information available.

Other adverse effects

Other adverse effects No information available.

13. Disposal considerations

13.1. Waste treatment methods

Waste from residues/unused products It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations. Dispose of in accordance with local regulations. Should not be released into the environment.

Contaminated packaging Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld containers. Dispose of in accordance with federal, state and local regulations.

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14. Transport information

Note: The shipping descriptions shown here are for bulk shipments only, and may not apply to shipments made in non-bulk packages (see regulatory definition). The information shown here, may not always agree with the bill of lading shipping description for the material.

DOT

UN number or ID number	UN1133
Extended proper shipping name	Adhesives
Transport hazard class(es)	3
Packing group	II
Reportable quantity (lbs)	Toluene: RQ (lb)= 1000, Xylenes (o-, m-, p- isomers): RQ (lb)= 100.00, Methyl ethyl ketone: RQ (lb)= 5000.00
Reportable Quantity (RQ)	(Toluene: RQ (kg)= 454, Xylenes (o-, m-, p- isomers): RQ (kg)= 45.40, Methyl ethyl ketone: RQ (kg)= 2270.00)
Special Provisions	149, B52, IB2, T4, TP1, TP8
DOT Marine Pollutant	NP
Description	UN1133, Adhesives, 3, II
Emergency Response Guide Number	128

IATA

UN number or ID number	UN1133
UN proper shipping name	Adhesives
Transport hazard class(es)	3
Packing group	II
Special Provisions	A3
Description	UN1133, Adhesives, 3, II

IMDG

UN number or ID number	UN1133
UN proper shipping name	Adhesives
Transport hazard class(es)	3
Packing group	II
EmS-No.	F-E, S-D
Marine pollutant	NP
Description	UN1133, Adhesives, 3, II, (-8.3°C c.c.)

15. Regulatory Information

International Inventories

TSCA	Complies
DSL	Complies

Legend:
TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL - Canadian Domestic Substances List
Complies - The components of this product are either listed or exempt from listing on inventory. Active
Not Listed - One or more components of this product are not listed on inventory.

US Federal Regulations

SARA 313
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

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Chemical name	CAS No.	SARA 313 - Threshold Values %
Toluene	108-88-3	1.0
Xylenes (o-, m-, p- isomers)	1330-20-7	1.0
Ethylbenzene	100-41-4	0.1

SARA 311/312 Hazard Categories
Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

16. Other Information

Key or legend to abbreviations and acronyms used in the safety data sheet

Legend
SVHC: Substances of Very High Concern for Authorization:
PBT: Persistent, Bioaccumulative, and Toxic (PBT) Substances
vPvB: Very Persistent and very Bioaccumulative (vPvB) Substances
STOT: Specific Target Organ Toxicity
ATE: Acute Toxicity Estimate
LC50: 50% Lethal Concentration
LD50: 50% Lethal Dose

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	Sk*	Skin designation

Prepared By Product Stewardship and Regulatory Affairs.

Revision date 18-Dec-2024

Revision Note SDS sections updated. 1. 2. 3. 4. 5. 6. 7. 8. 9. 11. 12. 13. 15. 16.

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devices to determine the suitability of all raw material, products and components, including any medical grade products, in order to ensure that the medical device is safe for end-use and complies with all applicable legal and regulatory requirements and to conduct all necessary tests and inspections.

End of Safety Data Sheet