

FLEXSORB™ SE

Safety Data Sheet

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS) Issue date: 1/7/2025 Revision date: 1/7/2025 Supersedes: 3/22/2021 Version: 2.0

SECTION 1 Identification	
1.1. Product identifier	
Product form:Trade name:Chemical name:Formula:	Substance FLEXSORB™ SE Hindered Alkanolamine C8H19NO2
1.2. Other means of identification	
EC Index No. (Report) : EC-No. :	603-089-00-X 400-390-6
1.3. Recommended use of the chemical and r	estrictions on use
Use of the substance/mixture : Recommended use :	Gas treatment,Laboratory chemical Laboratory chemical
1.4. Supplier's details	
Monument Chemical 10200 Bay Area Blvd. Pasadena, TX, 77507 USA T (281)474-5550 <u>sds@monumentchemical.com</u> - <u>www.monumentchemical.com</u>	i <u>cal.com</u>
1.5. Emergency phone number	
Emergency number :	24 HR CHEMTREC: 1-800-424-9300 (International +1 703-741-5970)
SECTION 2 Hazard Identification	
2.1. Classification of the substance or mixtur	e
GHS US classification	
Acute toxicity (oral), Category 4 Skin corrosion/irritation, Category 1 Full text of H statements : see section 16	H302Harmful if swallowed.H314Causes severe skin burns and eye damage.
2.2. Label elements	
GHS US labeling	
Hazard pictograms (GHS US) :	
Signal word (GHS US) : Hazard statements (GHS US) : Precautionary statements (GHS US) :	Danger H302 - Harmful if swallowed H314 - Causes severe skin burns and eye damage P260 - Do not breathe dusts or mists. P264 - Wash hands, forearms and face thoroughly after handling. P270 - Do not eat, drink or smoke when using this product. P280 - Wear protective gloves, protective clothing, eye protection, face protection, and hearing protection. P301+P312 - If swallowed: Call a doctor, a POISON CENTER if you feel unwell.

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P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting.

P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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P310 - Immediately call a doctor, a POISON CENTER.

P321 - Specific treatment (see supplemental first aid instruction on this label).

P330 - Rinse mouth.

P363 - Take off immediately all contaminated clothing and wash it before reuse.

P405 - Store locked up.

P501 - Dispose of contents and/or container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulations.

2.3. Hazards associated with known or reasonably anticipated uses

No additional information available

2.4. Hazards not otherwise classified

No additional information available

2.5. Unknown acute toxicity

No additional information available

SECTION 3 Composition/information on ingredients

3.1. Substances

Chemical name

: Hindered Alkanolamine

Name	Product identifier	%
Hindered Alkanolamine*	CAS-No.: Trade Secret	95 – 99
2,2' -oxybisethanol, diethylene glycol	CAS-No.: 111-46-6	≤ 2

*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret Full text of hazard classes and H-statements : see section 16

3.2. Mixtures

Not applicable

SECTION 4 First aid measures

4.1. Description of necessary first-aid measures		
First-aid measures general	: Check the vital functions. Unconscious: maintain adequate airway and respiration. Respiratory arrest: artificial respiration or oxygen. Cardiac arrest: perform resuscitation. Victim conscious with laboured breathing: half-seated. Victim in shock: on his back with legs slightly raised. Vomiting: prevent asphyxia/aspiration pneumonia. Prevent cooling by covering the victim (no warming up). Keep watching the victim. Give psychological aid. Keep the victim calm, avoid physical strain. Depending on the victim's condition: doctor/hospital.	
First-aid measures after inhalation First-aid measures after skin contact	 Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service. Do not apply (chemical) neutralizing agents without medical advice. Remove clothing while washing. Do not remove clothing if it sticks to the skin. Cover wounds with sterile bandage. Consult a doctor/medical service. If burned surface > 10%: take victim to hospital. 	

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First-aid measures after eye contact First-aid measures after ingestion	 Rinse immediately with plenty of water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Take victim to an ophthalmologist. Do not apply (chemical) neutralizing agents without medical advice. Rinse mouth with water. Immediately consult a doctor/medical service. Call Poison Information Centre (www.big.be/antigif.html). Ingestion of large quantities: immediately to hospital.
4.2. Most important symptoms/effects, ad	cute and delayed
Potential Adverse human health effects and	: Harmful if swallowed. Causes severe skin burns. Practically non-toxic in contact with skin (LD50 skin > 2000 mg/kg). Causes serious are demage

Symptoms	skii > 2000 mg/kg). Gauses senous eye uamage.
Symptoms/effects after inhalation	: EXPOSURE TO HIGH CONCENTRATIONS: Corrosion of the upper respiratory tract.
Symptoms/effects after skin contact	: Caustic burns/corrosion of the skin.
Symptoms/effects after eye contact	: Corrosion of the eye tissue.
Symptoms/effects after ingestion	: Possible esophageal perforation. Burns to the gastric/intestinal mucosa.
Chronic symptoms	: No effects known.

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

No additional information available

SECTION 5: Fire-fighting measures 5.1. Suitable (and unsuitable) extinguishing media		
5.2. Specific hazards arising from the chemical		
Fire hazard Hazardous decomposition products in case of fire	 DIRECT FIRE HAZARD: Material presenting a fire hazard. INDIRECT FIRE HAZARD: Temperature above flashpoint: higher fire/explosion hazard. On heating/burning: release of toxic and corrosive gases/vapours (carbon monoxide - carbon dioxide, nitrous vapours). 	
5.3. Special protective equipment and precautions for fire-fighters		
Precautionary measures fire	: Exposure to fire/heat: keep upwind. Exposure to fire/heat: consider evacuation. Exposure to fire/heat: seal off low-lying areas. Exposure to fire/heat: have neighbourhood close doors and windows.	
Firefighting instructions	: Dilute toxic gases with water spray. Take account of toxic/corrosive precipitation water. Take account of toxic fire-fighting water. Use water moderately and if possible collect or contain it.	
Protection during firefighting	: Heat/fire exposure: self-contained breathing apparatus (EN 136 + EN 137).	

SECTION 6 Accidental release measures		
6.1. Personal precautions, protective equipment and emergency procedures		
For non-emergency personnel		
Protective equipment :	Gloves (EN 374). Face shield (EN 166). Corrosion-proof suit (EN 14605). Large spills/in enclosed spaces: gas-tight suit (EN 943).	
Emergency procedures :	Mark the danger area. No naked flames. Wash contaminated clothes.	
For emergency responders		
Protective equipment : Emergency procedures :	Equip cleanup crew with proper protection. Ventilate area.	

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Environmental precautions	: Prevent soil and water pollution. Prevent spreading in sewers.	
6.2. Methods and materials for containment and cleaning up		
For containment	: Contain released product, collect/pump into suitable containers. Plug the leak, cut off the supply. Dam up the liquid spill. Heat exposure: dilute toxic gas/vapour with water spray. Take account of toxic/corrosive precipitation water.	
Methods for cleaning up	: Take up liquid spill into inert absorbent material. Scoop absorbed substance into closing containers. Carefully collect the spill/leftovers. Clean contaminated surfaces with an excess of water. Take collected spill to manufacturer/competent authority. Wash clothing and equipment after handling.	

See Heading 8, Exposure controls and personal protection

SECTION 7 Handling and storage		
7.1. Precautions for safe handling		
Precautions for safe handling	: At temperature > flashpoint: use spark-/explosionproof appliances. In finely divided state: use spark-/explosionproof appliances. Keep away from naked flames/heat. Finely divided: keep away from ignition sources/sparks. Measure the concentration in the air regularly. Carry operations in the open/under local exhaust/ventilation or with respiratory protection. Comply with the legal requirements. Clean contaminated clothing. Do not discharge the waste into the drain. Keep container tightly closed.	
Hygiene measures	: Observe very strict hygiene - avoid contact.	
7.2. Conditions for safe storage, including incompatibilities		
Storage conditions	: Keep only in the original container in a cool, well ventilated place away from : Keep container closed when not in use.	
Storage area	: Store in a cool area. Store in a dry area. Ventilation at floor level. Provide for a tub to collect spills. Meet the legal requirements. Keep out of direct sunlight.	
Incompatible products	: Strong bases. Strong acids.	
Incompatible materials	: Sources of ignition. Direct sunlight.	
Information on mixed storage	: KEEP SUBSTANCE AWAY FROM: oxidizing agents. (strong) acids. copper alloy.	
Heat-ignition	: KEEP SUBSTANCE AWAY FROM: heat sources.	
Special rules on packaging	: SPECIAL REQUIREMENTS: closing. hermetical. correctly labelled. meet the legal requirements. Secure fragile packagings in solid containers.	
Packaging materials	: SUITABLE MATERIAL: aluminium. glass. HDPE. stainless steel. steel. carbon steel. MATERIAL TO AVOID: plastics.	

SECTION 8 Exposure controls/personal protection

8.1. Control parameters

2,2' -oxybisethanol, diethylene glycol (111-46-6)		
USA - AIHA - Occupational Exposure Limits		
WEEL TWA	10 mg/m ³	
8.2 Appropriate engineering controls		

No additional information available

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8.3. Individual protection measures, such as personal protective equipment

Personal protective equipment:

Avoid all unnecessary exposure.

Materials for protective clothing:

Good resistance: neoprene (chloroprene rubber). Nitrile rubber. Polyvinylchloride (PVC). butyl rubber

Hand protection:

Gloves

Eye protection:

Face shield (EN 166)

Skin and body protection:

Corrosion-proof clothing (EN 14605)

Respiratory protection:

High gas/vapour concentration: full face mask

Personal protective equipment symbol(s):



Other information:

Do not eat, drink or smoke during use.

SECTION 9 Physical and chemical properties

9.1. Basic physical and chemical properties

Physical state	Liquid
Appearance	Colorless to amber colored liquid.
Color	Colorless amber
Odor	Amine-like
Odor threshold	No data available
pH	12.7
Melting point	No data available
Freezing point	No data available
Boiling point	: 230 °C (446°F)
Flash point	: 112 °C (234°F)
Relative evaporation rate (butyl acetate=1)	: <1
Flammability (solid, gas)	Non flammable.
Vapor pressure	: 4 Pa (38°C; 100°F)
Relative vapor density at 20°C	5.6 (Calculated)
Relative density	0.94 (24 °C, ISO 1183-1: Pycnometer Method)
Density	: 0.939 g/cm³ at 24°C (75°F)
Molecular mass	: 161.24 g/mol
Solubility	Soluble in water.
	Water: > 500000 mg/l
Partition coefficient n-octanol/water (Log Pow)	-2.6 (20°C; 68°F)
Auto-ignition temperature	: 320 °C (608°F)
Decomposition temperature	No data available
Viscosity, kinematic	64 mm²/s (20 °C, OECD 114: Viscosity of Liquids)
Explosion limits	No data available

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Explosive properties	: Not explosive.	
Particle characteristics	: No data available	
9.2. Data relevant with regard to physical hazard classes (supplemental)		
VOC content	: 100 %	
Fat solubility	: > 50 g/100ml (37°C; 99°F)	
Other properties	: Gas/vapour heavier than air at 20°C. Slightly volatile.	

SECTION 10 Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Stabilised product.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide.

SECTION 11 Toxicological information

11.1. Information on toxicological effects		
Acute toxicity (oral):Acute toxicity (dermal):Acute toxicity (inhalation):	Harmful if swallowed. Not classified Not classified	
Hindered Alkanolamine		
LD50 oral rat	1470 mg/kg	
LD50 dermal rabbit	> 3160 mg/kg body weight (Equivalent or similar to OECD 402, Rabbit, Male / female, Experimental value, Dermal)	
ATE US (oral)	1470 mg/kg body weight	
Hindered Alkanolamine		
LD50 oral rat	1470 mg/kg	
LD50 dermal rabbit	> 3160 mg/kg body weight (Equivalent or similar to OECD 402, Rabbit, Male / female, Experimental value, Dermal)	
ATE US (oral)	1470 mg/kg body weight	
2,2' -oxybisethanol, diethylene glycol (111-46-6)		
LD50 oral rat	12565 mg/kg	

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2,2' -oxybisethanol, diethylene glycol (111-46-6)		
LD50 dermal rabbit	11890 mg/kg	
LC50 Inhalation - Rat	> 4600 mg/m³ (Exposure time: 4 h)	
ATE US (oral)	500 mg/kg body weight	
ATE US (dermal)	11890 mg/kg body weight	
Skin corrosion/irritation :	Causes severe skin burns. pH: 12.7	
Hindered Alkanolamine		
рН	9 1% in water	
2,2' -oxybisethanol, diethylene glycol (111-46-	-6)	
рН	5 – 8 (50 %)	
Serious eye damage/irritation :	Not classified. pH: 12.7	
Hindered Alkanolamine		
рН	9 1% in water	
2,2' -oxybisethanol, diethylene glycol (111-46-	-6)	
рН	5 – 8 (50 %)	
Respiratory or skin sensitization:Germ cell mutagenicity:	Not classified Not classified	
Carcinogenicity :	Not classified	
2,2' -oxybisethanol, diethylene glycol (111-46-	-6)	
NOAEL (chronic,oral,animal/male,2 years)	1210 mg/kg body weight Animal: rat, Animal sex: male, Remarks on results: other:Effect type: carcinogenicity (migrated information)	
NOAEL (chronic,oral,animal/female,2 years)	1160 mg/kg body weight Animal: rat, Animal sex: female, Remarks on results: other:Effect type: carcinogenicity (migrated information)	
Reproductive toxicity : STOT-single exposure : STOT-repeated exposure : Hindered Alkanolamine	Not classified Not classified Not classified.	
NOAFL (oral rat 90 days)	60 mg/kg body weight Animal: rat. Guideline: OECD Guideline 407 (Repeated Dose 28-Day	
····· (-····, -·, -··, -)	Oral Toxicity in Rodents)	
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.	
2,2' -oxybisethanol, diethylene glycol (111-46-6)		
LOAEL (oral,rat,90 days)	40000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity in Rodents)	
Aspiration hazard :	Not classified	
Hindered Alkanolamine		
Viscosity, kinematic	64 mm²/s (20 °C, OECD 114: Viscosity of Liquids)	

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Hindered Alkanolamine		
Viscosity, kinematic	64 mm²/s (20 °C, OECD 114: Viscosity of Liquids)	
2,2' -oxybisethanol, diethylene glycol (111-46-6)		
Viscosity, kinematic	No data available in the literature	
Potential Adverse human health effects and :	Harmful if swallowed. Causes severe skin burns. Practically non-toxic in contact with skin (LD50	
symptoms	skin > 2000 mg/kg). Causes serious eye damage.	
Symptoms/effects after inhalation :	EXPOSURE TO HIGH CONCENTRATIONS: Corrosion of the upper respiratory tract.	
Symptoms/effects after skin contact	Caustic burns/corrosion of the skin.	
Symptoms/effects after eye contact	Corrosion of the eye tissue.	
Symptoms/effects after ingestion	Possible esophageal perforation. Burns to the gastric/intestinal mucosa.	
Chronic symptoms :	No effects known.	

SECTION 12 Ecological information	
12.1. Ecotoxicity	
Ecology - general :	Not classified as dangerous for the environment according to the criteria of Regulation (EC) No 1272/2008
Ecology - air :	Not included in the list of substances which may contribute to the greenhouse effect (IPCC). Not included in the list of fluorinated greenhouse gases (Regulation (EU) No 2024/573). Photooxidation in the air. Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009).
Ecology - water :	Slightly harmful to crustacea. Slightly harmful to fishes. No inhibition of activated sludge. Slightly harmful to algae.
Hazardous to the aquatic environment, short–term : (acute)	Not classified
Hazardous to the aquatic environment, long-term : (chronic)	Not classified
Hindered Alkanolamine	
LC50 - Fish [1]	255.3 mg/l (96 h, Pimephales promelas, Static system, Fresh water, Experimental value, Nominal concentration)
EC50 - Crustacea [1]	113.6 mg/l (48 h, Daphnia magna, Static system, Fresh water, Experimental value, Locomotor effect)
ErC50 algae	170 – 180 mg/l (ISO 10253, 72 h, Skeletonema costatum, Static system, Experimental value, Nominal concentration)
Hindered Alkanolamine	
LC50 - Fish [1]	255.3 mg/l (96 h, Pimephales promelas, Static system, Fresh water, Experimental value, Nominal concentration)
EC50 - Crustacea [1]	113.6 mg/l (48 h, Daphnia magna, Static system, Fresh water, Experimental value, Locomotor effect)
EC50 72h - Algae [1]	170 – 180 mg/l Test organisms (species): Skeletonema costatum
ErC50 algae	170 – 180 mg/l (ISO 10253, 72 h, Skeletonema costatum, Static system, Experimental value, Nominal concentration)
LOEC (chronic)	32 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC (chronic)	10 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
2,2' -oxybisethanol, diethylene glycol (111-46	-6)
LC50 - Fish [1]	75200 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])

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2,2' -oxybisethanol, diethylene glycol (111-46-6)	
EC50 - Crustacea [1]	84000 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 96h - Algae [1]	9362 mg/l (ECOSAR, Algae, QSAR)
EC50 96h - Algae [2]	9362 mg/l Test organisms (species): other:green algae
NOEC (chronic)	≥ 1000 mg/l Test organisms (species): Americamysis bahia (previous name: Mysidopsis bahia) Duration: '23 d'

12.2. Persistence and degradability

Hindered Alkanolamine		
Persistence and degradability	Readily biodegradable in water.	
Hindered Alkanolamine		
Persistence and degradability	Readily biodegradable in water.	
2,2' -oxybisethanol, diethylene glycol (111-46-6)		
Persistence and degradability	Biodegradable in the soil, Readily biodegradable in water.	
Biochemical oxygen demand (BOD)	0.02 g O ₂ /g substance	
Chemical oxygen demand (COD)	1.51 g O ₂ /g substance	
ThOD	1.51 g O ₂ /g substance	

12.3. Bioaccumulative potential

Hindered Alkanolamine		
BCF - Fish [1]	3.162 l/kg (BCFBAF v3.01, Estimated value, Fresh weight)	
Partition coefficient n-octanol/water (Log Pow)	-2.6 (20°C; 68°F)	
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).	
Hindered Alkanolamine		
BCF - Fish [1]	3.162 l/kg (BCFBAF v3.01, Estimated value, Fresh weight)	
Partition coefficient n-octanol/water (Log Pow)	-2.6 (20°C; 68°F)	
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).	
2,2' -oxybisethanol, diethylene glycol (111-46-6)		
BCF - Fish [1]	100 – 180	
Partition coefficient n-octanol/water (Log Pow)	-1.98 (at 25 °C)	
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).	

12.4. Mobility in soil

Hindered Alkanolamine	
Surface tension	38 mN/m (24 °C, 250 g/l)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	0 – 4.28 (log Koc, OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC), Experimental value)
Ecology - soil	Adsorbs into the soil.

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Hindered Alkanolamine		
Surface tension	38 mN/m (24 °C, 250 g/l)	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	0 – 4.28 (log Koc, OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC), Experimental value)	
Ecology - soil	Adsorbs into the soil.	
2,2' -oxybisethanol, diethylene glycol (111-46-6)		
Surface tension	48.5 mN/m	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	0 (log Koc, SRC PCKOCWIN v2.0, QSAR)	
Ecology - soil	Highly mobile in soil.	
12.5. Other adverse effects		
Ozone : Fluorinated greenhouse gases :	Not classified No	
Other information :	Avoid release to the environment.	

SECTION 13 Disposal considerations	
Product/Packaging disposal recommendations	: Do not discharge into drains or the environment. Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Recycle/reuse. Remove to an authorized dump (Class I). Remove to an authorized incinerator with energy recovery.
Additional information	: Hazardous waste according to Directive 2008/98/EC, as amended by Regulation (EU) No 1357/2014 and Regulation (EU) No 2017/997.
Ecological waste information	: Avoid release to the environment.

SECTION 14 Transport information

In accordance with DOT / IMDG / IATA

14.1. UN number	
UN-No. (DOT) UN-No. (IMDG) UN-No. (IATA)	: UN2735 : 2735 : 2735
14.2. UN Proper Shipping Name	
Proper Shipping Name (DOT) Proper Shipping Name (IMDG) Proper Shipping Name (IATA) Transport document description (DOT) Transport document description (IMDG) Transport document description (IATA)	 Amines, liquid, corrosive, n.o.s. (Alkyl amine alcohol) AMINES, LIQUID, CORROSIVE, N.O.S. (Alkyl amine alcohol) Amines, liquid, corrosive, n.o.s. (Alkyl amine alcohol) UN2735 Amines, liquid, corrosive, n.o.s. (Alkyl amine alcohol), 8, II UN 2735 AMINES, LIQUID, CORROSIVE, N.O.S. (Alkyl amine alcohol), 8, II UN 2735 Amines, liquid, corrosive, n.o.s. (Alkyl amine alcohol), 8, II
14.3. Transport hazard class(es)	
DOT Transport hazard class(es) (DOT)	: 8

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Hazard labels (DOT)	: 8 CORROSIVE
IMDG Transport hazard class(es) (IMDG) Hazard labels (IMDG)	
IATA Transport hazard class(es) (IATA) Hazard labels (IATA)	
14.4. Packing group	
Packing group (DOT) Packing group (IMDG) Packing group (IATA)	: II : II : II
14.5. Environmental hazards	
Other information	: No supplementary information available.
14.6. Transport in bulk	
Not applicable	
14.7. Special precautions for user	
DOT UN-No. (DOT) DOT Special Provisions (49 CFR 172.102) DOT Packaging Exceptions (49 CFR 173.xxx) DOT Packaging Non Bulk (49 CFR 173.xxx)	 UN2735 B2 - MC 300, MC 301, MC 302, MC 303, MC 305, and MC 306 and DOT 406 cargo tanks are not authorized. IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized. T11 - 6 178.274(d)(2) Normal
DOT Packaging Bulk (49 CFR 173.xxx) DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) DOT Quantity Limitations Cargo aircraft only (49	: 242 : 1L : 30 L
CFR 175.75)	

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DOT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.			
DOT Vessel Stowage Other	: 52 - Stow "separated from" acids			
IMDG				
Transport regulations (IMDG)	: Subject to the provisions			
Special provision (IMDG)	: 274			
Packing instructions (IMDG)	: P001			
IBC packing instructions (IMDG)	: IBC02			
Tank instructions (IMDG)	: T11			
Tank special provisions (IMDG)	: TP1, TP27			
EmS-No. (Fire)	: F-A - FIRE SCHEDULE Alfa - GENERAL FIRE SCHEDULE			
EmS-No. (Spillage)	: S-B - SPILLAGE SCHEDULE Bravo - CORROSIVE SUBSTANCES			
Stowage category (IMDG)	: A			
Segregation (IMDG)	: SG35			
Properties and observations (IMDG)	: Colorless to yellowish liquids or solutions with a pungent odor. Miscible with or soluble in water. When involved in a fire, evolve toxic gases. Corrosive to most metals, especially to copper and its alloys. Reacts violently with acids. Cause burns to skin, eyes and mucous membranes.			
ΙΑΤΑ				
Special provision (IATA)	: A3, A803			
Transport regulations (IATA)	: Subject to the provisions			
PCA Excepted quantities (IATA)	: E2			
PCA Limited quantities (IATA)	: Y840			
PCA limited quantity max net quantity (IATA)	: 0.5L			
PCA packing instructions (IATA)	: 851			
PCA max net quantity (IATA)	: 1L			
CAO packing instructions (IATA)	: 855			
CAO max net quantity (IATA)	: 30L			
ERG code (IATA)	: 8L			

SECTION 15 Regulatory information

15.1. Federal regulations

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

This product or mixture is not known to contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

15.2. International regulations

CANADA

Hindered Alkanolamine

Listed on the Canadian DSL (Domestic Substances List)

Hindered Alkanolamine

Listed on the Canadian DSL (Domestic Substances List)

2,2' -oxybisethanol, diethylene glycol (111-46-6)

Listed on the Canadian DSL (Domestic Substances List)

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EU-Regulations

Hindered Alkanolamine

Listed on ELINCS (European List of Notified Chemical Substances)

Hindered Alkanolamine

Listed on ELINCS (European List of Notified Chemical Substances)

2,2' -oxybisethanol, diethylene glycol (111-46-6)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

National regulations

Hindered Alkanolamine
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on the Japanese ISHL (Industrial Safety and Health Law)
Listed on the TCSI (Taiwan Chemical Substance Inventory)
Listed on the NCI (Vietnam - National Chemical Inventory)

Hindered Alkanolamine

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) Listed on the Japanese ISHL (Industrial Safety and Health Law) Listed on the TCSI (Taiwan Chemical Substance Inventory) Listed on the NCI (Vietnam - National Chemical Inventory)

2,2' -oxybisethanol, diethylene glycol (111-46-6)

Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory) Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances) Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory Listed on KECL/KECI (Korean Existing Chemicals Inventory) Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) Listed on NZIoC (New Zealand Inventory of Chemicals) Listed on the Japanese ISHL (Industrial Safety and Health Law) Listed on INSQ (Mexican National Inventory of Chemical Substances) Listed on the TCSI (Taiwan Chemical Substance Inventory) Listed on the NCI (Vietnam - National Chemical Inventory)

15.3. State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

Component	State or local regulations
2,2' -oxybisethanol, diethylene glycol(111-46-6)	U.S Pennsylvania - RTK (Right to Know) List

SECTION 16 Other information

FLEXSORB™ SE

Safety Data Sheet

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)

Revision date	:	1/7/2025
Issue date	:	1/7/2025
Other information	:	None.

Full text of hazard classes and H-statements			
H302	Harmful if swallowed		
H314	Causes severe skin burns and eye damage		
NFPA health hazard NFPA fire hazard NFPA reactivity	 3 - Materials that, under emergency conditions, can cause serious or permanent injury. 1 - Materials that must be preheated before ignition can occur. 0 - Material that in themselves are normally stable, even under fire conditions. 		
Hazard Rating			
Health	: 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given		
Flammability	 1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids, solids and semi solids having a flash point above 200 F. (Class IIIB) 		
Physical	: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.		
Personal protection	: H - Splash goggles, Gloves, Synthetic apron, Vapor respirator		
Safety Data Sheet (SDS), USA		

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