Section 1. Identification of the substance/preparation and of the company/undertaking

Product name: LOCTITE LB 8201 AE400ML EGFD

Other means of identification: LOCTITE LB 8201 AE400ML EGFD
Product code: IDH2101118
Recommended use of the chemical and restrictions on use

Intended use: Lubricant
Manufacturer/Importer/Distributor Representative Company

Henkel Adhesive Tech. Vietnam Co., Ltd,
No. 7, Road 9A Bien Hoa II Industrial Zone,
Bien Hoa City,
810000 Dong Nai Province

Vietnam

Phone: +84 (28) 7100 6301
Fax-no.: +84 (28) 7100 6300

E-mail address of person responsible for Safety Data Sheet: ap-ua-psra.sea@henkel.com

Emergency Telephone for Chemical Accidents: FOR EMERGENCIES ONLY (Spill, major leak, Fire, Exposure, or Accident). Call: +84 28 71006388

Section 2. Hazards identification

GHS Classification:

Hazard Class	Hazard Category
Flammable aerosols	Category 2

GHS label elements:

Hazard pictogram:



Signal word: Warning

Hazard statement: H223 Flammable aerosol.
H229 Pressurized container: May burst if heated.

Precaution:

Prevention: P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211 Do not spray on an open flame or other ignition source.
P251 Do not pierce or burn, even after use.

Storage: P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

Section 3. Composition / information on ingredients

Substance or Mixture:
Mixture

Declaration of hazardous chemical:

Hazard component CAS-No.	Content	GHS Classification
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatic 64742-48-9	30- 60 %	Flammable liquids 4 H227 Skin corrosion/irritation 3 H316 Aspiration hazard 1 H304
butane 106-97-8	10- 30 %	Flammable gases 1 H220 Gases under pressure H280
Distillates (petroleum), solvent-dewaxed heavy paraffinic < 3%DMSO 64742-65-0	10- 30 %	
propane 74-98-6	1- 10 %	Flammable gases 1 H220 Gases under pressure
Petrolatum 8009-03-8	1- 10 %	
Isobutane 75-28-5	1- 10 %	Flammable gases 1 H220 Gases under pressure H280
Sulfonic acids, petroleum, sodium salts 68608-26-4	1- 10 %	Serious eye damage/eye irritation 2A H319

Section 4. First aid measures

Inhalation: Move to fresh air. If symptoms persist, seek medical advice.

Skin contact: Rinse with running water and soap.
Obtain medical attention if irritation persists.

Eye contact: Rinse immediately with plenty of running water (for 10 minutes), seek medical attention from a specialist.

Ingestion: Rinse mouth, drink 1-2 glasses of water, do not induce vomiting, consult a doctor.

Section 5. Fire fighting measures

Suitable extinguishing media: water, carbon dioxide, foam, powder

Improper extinguishing media: High pressure waterjet

Specific hazards arising from the chemical:	In the event of a fire, carbon monoxide (CO), carbon dioxide (CO2) and nitrogen oxides (NOx) can be released.
Special protection equipment and precautions for firefighters:	Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.
Additional fire fighting advice:	In case of fire, keep containers cool with water spray.

Section 6. Accidental release measures

Personal precautions:	Avoid contact with skin and eyes. Wear protective equipment. Ensure adequate ventilation. Keep away from sources of ignition. See advice in section 8
Environmental precautions:	Do not empty into drains / surface water / ground water.
Clean-up methods:	Dispose of contaminated material as waste according to Section 13. For small spills wipe up with paper towel and place in container for disposal. For large spills absorb onto inert absorbent material and place in sealed container for disposal.

Section 7. Handling and storage

Handling:	Avoid skin and eye contact. See advice in section 8
Storage:	Ensure good ventilation/extraction.Store in a cool, well-ventilated place. Keep away from heat and direct sunlight. Refer to Technical Data Sheet.

Section 8. Exposure controls / personal protection

Components with specific control parameters for workplace:

Natural gas 106-97-8	**Remarks**	ACGIH D: Simple asphyxiant, EX: Explosion hazard
Butane, all isomers 106-97-8	**Value type**	Short Term Exposure Limit (STEL):
	ppm	1,000
	Remarks	ACGIH EX: Explosion hazard
Mineral oil, excluding metal working fluids, pure, highly and severely refined, inhalable fraction 64742-65-0	**Value type**	Time Weighted Average (TWA):
	mg/m³	5
	Remarks	ACGIH
Mineral oil (mist) 64742-65-0	**Value type**	Time Weighted Average (TWA):
	mg/m³	5
	Remarks	VN OEL
Mineral oil (mist) 64742-65-0	**Value type**	Short-term exposure limit (STEL):
	mg/m³	10
	Remarks	VN OEL
HYDROCARBONS (1-10 C) 74-98-6	**Value type**	Short-term exposure limit (STEL):
	mg/m³	300
	Remarks	VN OEL
PROPANE 74-98-6	**Remarks**	ACGIH D: Simple asphyxiant, EX: Explosion hazard
Mineral oil, excluding metal working fluids, pure, highly and severely refined, inhalable fraction 8009-03-8	**Value type**	Time Weighted Average (TWA):
	mg/m³	5
	Remarks	ACGIH
Mineral oil (mist) 8009-03-8	**Value type**	Time Weighted Average (TWA):
	mg/m³	5
	Remarks	VN OEL
Mineral oil (mist) 8009-03-8	**Value type**	Short-term exposure limit (STEL):
	mg/m³	10
	Remarks	VN OEL
Hydrocarbons (1-10 C) 75-28-5	**Value type**	Short-term exposure limit (STEL):
	mg/m³	300
	Remarks	VN OEL
Natural gas 75-28-5	**Remarks**	ACGIH D: Simple asphyxiant, EX: Explosion hazard
Butane, all isomers 75-28-5	**Value type**	Short Term Exposure Limit (STEL):
	ppm	1,000
	Remarks	ACGIH EX: Explosion hazard

Respiratory protection: Ensure adequate ventilation.
An approved mask or respirator fitted with an organic vapour cartridge should be worn if the product is used in a poorly ventilated area
Filter type: A (EN 14387)

Hand protection: Chemical-resistant protective gloves (EN 374).
Suitable materials for short-term contact or splashes (recommended: at least protection index 2, corresponding to > 30 minutes permeation time as per EN 374):
nitrile rubber (NBR; >= 0.4 mm thickness)
Suitable materials for longer, direct contact (recommended: protection index 6, corresponding to > 480 minutes permeation time as per EN 374):

	nitrile rubber (NBR; >= 0.4 mm thickness) This information is based on literature references and on information provided by glove manufacturers, or is derived by analogy with similar substances. Please note that in practice the working life of chemical-resistant protective gloves may be considerably shorter than the permeation time determined in accordance with EN 374 as a result of the many influencing factors (e.g. temperature). If signs of wear and tear are noticed then the gloves should be replaced.
Eye protection:	Safety glasses with sideshields or chemical safety goggles should be worn if there is a risk of splashing. Protective eye equipment should conform to EN166.
Body protection:	Wear suitable protective clothing. Protective clothing should conform to EN 14605 for liquid splashes or to EN 13982 for dusts.
Engineering controls:	Provide local and general exhaust ventilation to effectively remove and prevent buildup of any vapors or mists generated from the handling of this product.
General protection and hygiene measures:	The workplace should be equipped with an emergency shower and eye-rinsing facility.
Hygienic measures:	Wash hands before work breaks and after finishing work. Do not eat, drink or smoke while working. Take off contaminated clothing and wash before reuse.

Section 9. Physical and chemical properties

Appearance:	Light yellow Aerosol
Odor:	Characteristic
Odor threshold (CA):	No data available.
pH:	Not applicable, Product is non-polar/aprotic.
Melting point / freezing point:	Not applicable, Product is a liquid
Specific gravity:	No data available.
Boiling point:	-44.5 °C (-48.1 °F)
Flash point:	-97 °C (-142.6 °F)
Evaporation rate:	No data available.
Flammability (solid, gas):	No data available.
Lower explosive limit:	0.7 %(V)
Upper explosive limit:	10.9 %(V)
Vapor pressure:	3100 hPa
(; 20 °C (68 °F); 50 °C (122 °F))	5700 hPa
Vapor density:	No data available.
Density:	0.727 g/cm3
Solubility:	Not miscible (20 °C)
Partition coefficient: n-octanol/water:	No data available.
Auto ignition:	No data available.
Decomposition temperature:	No data available.
Viscosity:	No data available.
VOC content:	77.3 %
(2010/75/EC)	

Section 10. Stability and reactivity

Reactivity/Incompatible materials:	None if used properly.
Chemical stability:	Stable under recommended storage conditions.

Conditions to avoid: Stable under normal conditions of storage and use.

Section 11. Toxicological information

Symptoms of Overexposure**:** None known.

Acute oral toxicity:

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatic 64742-48-9	Value type	LD50
	Value	> 15,000 mg/kg
	Species	rat
	Method	equivalent or similar to OECD Guideline 401 (Acute Oral Toxicity)
Distillates (petroleum), solvent-dewaxed heavy paraffinic < 3%DMSO 64742-65-0	Value type	LD50
	Value	> 5,000 mg/kg
	Species	rat
	Method	OECD Guideline 401 (Acute Oral Toxicity)
Petrolatum 8009-03-8	Value type	LD50
	Value	> 5,000 mg/kg
	Species	rat
	Method	OECD Guideline 401 (Acute Oral Toxicity)
Sulfonic acids, petroleum, sodium salts 68608-26-4	Value type	LD50
	Value	> 5,000 mg/kg
	Species	rat
	Method	OECD Guideline 401 (Acute Oral Toxicity)

Acute inhalative toxicity:

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatic 64742-48-9	Value type	LC50
	Value	> 5.6 mg/l
	Exposure time	4 h
	Species	rat
	Method	equivalent or similar to OECD Guideline 403 (Acute Inhalation Toxicity)
butane 106-97-8	Value type	LC50
	Value	274200 ppm
	Exposure time	4 h
	Species	rat
	Method	not specified
Distillates (petroleum), solvent-dewaxed heavy paraffinic < 3%DMSO 64742-65-0	Value type	LC50
	Value	> 5.53 mg/l
	Exposure time	4 h
	Species	rat
	Method	OECD Guideline 403 (Acute Inhalation Toxicity)
propane 74-98-6	Value type	LC50
	Value	> 800000 ppm
	Exposure time	15 min
	Species	rat
	Method	not specified
Isobutane 75-28-5	Value type	LC50
	Value	260200 ppm
	Exposure time	4 h
	Species	mouse
	Method	not specified

Acute dermal toxicity:

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatic 64742-48-9	Value type	LD50
	Value	> 5,000 mg/kg
	Species	rabbit
	Method	equivalent or similar to OECD Guideline 402 (Acute Dermal Toxicity)
Distillates (petroleum), solvent-dewaxed heavy paraffinic < 3%DMSO 64742-65-0	Value type	LD50
	Value	> 5,000 mg/kg
	Species	rabbit
	Method	OECD Guideline 402 (Acute Dermal Toxicity)
Petrolatum 8009-03-8	Value type	LD50
	Value	> 2,000 mg/kg
	Species	rabbit
	Method	OECD Guideline 402 (Acute Dermal Toxicity)
Sulfonic acids, petroleum, sodium salts 68608-26-4	Value type	LD50
	Value	> 5,000 mg/kg
	Species	rabbit
	Method	OECD Guideline 402 (Acute Dermal Toxicity)

Skin corrosion/irritation:

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatic 64742-48-9	Result	mildly irritating
	Exposure time	4 h
	Species	rabbit
	Method	equivalent or similar to OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Distillates (petroleum), solvent-dewaxed heavy paraffinic < 3%DMSO 64742-65-0	Result	not irritating
	Exposure time	24 h
	Species	rabbit
	Method	not specified
Petrolatum 8009-03-8	Result	not irritating
	Exposure time	4 h
	Species	rabbit
	Method	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Sulfonic acids, petroleum, sodium salts 68608-26-4	Result	not irritating
	Exposure time	4 h
	Species	rabbit

	Method	EPA OPPTS 870.2500 (Acute Dermal Irritation)

Serious eye damage/irritation:

Distillates (petroleum), solvent-dewaxed heavy paraffinic < 3%DMSO 64742-65-0	Result	not irritating
	Exposure time	
	Species	rabbit
	Method	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
Petrolatum 8009-03-8	Result	not irritating
	Exposure time	
	Species	rabbit
	Method	equivalent or similar to OECD Guideline 405 (Acute Eye Irritation / Corrosion)
Sulfonic acids, petroleum, sodium salts 68608-26-4	Result	irritating
	Exposure time	
	Species	rabbit
	Method	OECD Guideline 405 (Acute Eye Irritation / Corrosion)

Respiratory or skin sensitization:

Distillates (petroleum), solvent-dewaxed heavy paraffinic < 3%DMSO 64742-65-0	Result	not sensitising
	Test type	Buehler test
	Species	guinea pig
	Method	OECD Guideline 406 (Skin Sensitisation)
Petrolatum 8009-03-8	Result	not sensitising
	Test type	Guinea pig maximisation test
	Species	guinea pig
	Method	OECD Guideline 406 (Skin Sensitisation)
Sulfonic acids, petroleum, sodium salts 68608-26-4	Result	not sensitising
	Test type	Patch-Test
	Species	human
	Method	Patch Test

Germ cell mutagenicity:

butane 106-97-8	Result	negative
	Type of study / Route of administration	bacterial reverse mutation assay (e.g Ames test)
	Metabolic activation / Exposure time	with and without
	Method	OECD Guideline 471 (Bacterial Reverse Mutation Assay)
butane 106-97-8	Result	negative
	Type of study / Route of administration	in vitro mammalian chromosome aberration test
	Metabolic activation / Exposure time	with and without
	Method	OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
butane 106-97-8	Result	negative
	Type of study / Route of administration	inhalation: gas
	Metabolic activation / Exposure time	
	Species	rat
	Method	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)
Distillates (petroleum), solvent-dewaxed heavy paraffinic < 3%DMSO 64742-65-0	Result	negative
	Type of study / Route of administration	in vitro mammalian chromosome aberration test
	Metabolic activation / Exposure time	with and without
	Method	OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
Distillates (petroleum), solvent-dewaxed heavy paraffinic < 3%DMSO 64742-65-0	Result	negative
	Type of study / Route of administration	mammalian cell gene mutation assay
	Metabolic activation / Exposure time	with and without
	Method	OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
Distillates (petroleum), solvent-dewaxed heavy paraffinic < 3%DMSO 64742-65-0	Result	negative
	Type of study / Route of administration	oral: gavage
	Metabolic activation / Exposure time	
	Species	mouse
	Method	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)
propane 74-98-6	Result	negative
	Type of study / Route of administration	bacterial reverse mutation assay (e.g Ames test)
	Metabolic activation / Exposure time	with and without
	Method	OECD Guideline 471 (Bacterial Reverse Mutation Assay)
propane 74-98-6	Result	negative
	Type of study / Route of administration	in vitro mammalian chromosome aberration test
	Metabolic activation / Exposure time	with and without
	Method	OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
propane 74-98-6	Result	negative
	Type of study / Route of administration	
	Metabolic activation / Exposure time	
	Species	Drosophila melanogaster
	Method	not specified
propane 74-98-6	Result	negative
	Type of study / Route of administration	inhalation: gas
	Metabolic activation / Exposure time	
	Species	rat
	Method	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)
Petrolatum 8009-03-8	Result	negative
	Type of study / Route of administration	bacterial reverse mutation assay (e.g Ames test)
	Metabolic activation / Exposure time	with and without
	Method	OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Petrolatum 8009-03-8	Result	negative
	Type of study / Route of administration	mammalian cell gene mutation assay
	Metabolic activation / Exposure time	with and without
	Method	OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
Petrolatum 8009-03-8	Result	negative
	Type of study / Route of administration	
	Metabolic activation / Exposure time	with and without
	Method	equivalent or similar to OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
Petrolatum 8009-03-8	Result	negative
	Type of study / Route of administration	dermal

	Metabolic activation / Exposure time	
	Species	rat
	Method	OECD Guideline 475 (Mammalian Bone Marrow Chromosome Aberration Test)
Isobutane 75-28-5	Result	negative
	Type of study / Route of administration	bacterial reverse mutation assay (e.g Ames test)
	Metabolic activation / Exposure time	with and without
	Method	OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Isobutane 75-28-5	Result	negative
	Type of study / Route of administration	in vitro mammalian chromosome aberration test
	Metabolic activation / Exposure time	with and without
	Method	OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
Isobutane 75-28-5	Result	negative
	Type of study / Route of administration	oral: feed
	Metabolic activation / Exposure time	
	Species	Drosophila melanogaster
	Method	not specified
Isobutane 75-28-5	Result	negative
	Type of study / Route of administration	inhalation: gas
	Metabolic activation / Exposure time	
	Species	rat
	Method	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)
Sulfonic acids, petroleum, sodium salts 68608-26-4	Result	negative
	Type of study / Route of administration	bacterial reverse mutation assay (e.g Ames test)
	Metabolic activation / Exposure time	with and without
	Method	OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Sulfonic acids, petroleum, sodium salts 68608-26-4	Result	negative
	Type of study / Route of administration	in vitro mammalian chromosome aberration test
	Metabolic activation / Exposure time	with and without
	Method	OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
Sulfonic acids, petroleum, sodium salts 68608-26-4	Result	negative
	Type of study / Route of administration	mammalian cell gene mutation assay
	Metabolic activation / Exposure time	with and without
	Method	OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
Sulfonic acids, petroleum, sodium salts 68608-26-4	Result	negative
	Type of study / Route of administration	intraperitoneal
	Metabolic activation / Exposure time	
	Species	mouse
	Method	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)

Repeated dose toxicity:

butane 106-97-8	Result	
	Route of application	inhalation: gas
	Exposure time / Frequency of treatment	28 d6 h/d
	Species	rat
	Method	OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
propane 74-98-6	Result	
	Route of application	inhalation: gas
	Exposure time / Frequency of treatment	28 d6 h/d, 7 d/w
	Species	rat
	Method	OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
Petrolatum 8009-03-8	Result	NOAEL=5,000 mg/kg
	Route of application	oral: feed
	Exposure time / Frequency of treatment	2 ycontinuous, ad libitum
	Species	rat
	Method	equivalent or similar to OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)
Isobutane 75-28-5	Result	NOAEL=9000 ppm
	Route of application	inhalation: gas
	Exposure time / Frequency of treatment	28 d6 h/d, 7 d/w
	Species	rat
	Method	OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
Sulfonic acids, petroleum, sodium salts 68608-26-4	Result	NOAEL=500 mg/kg
	Route of application	oral: gavage
	Exposure time / Frequency of treatment	29 ddaily
	Species	rat
	Method	OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity in Rodents)

Section 12. Ecological information

General ecological information: Do not empty into drains / surface water / ground water.

Ecotoxicity:

Toxicity:

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatic 64742-48-9	Value type	LL50
	Value	> 1,000 mg/l
	Acute Toxicity Study	Fish
	Exposure time	96 h
	Species	Oncorhynchus mykiss
	Method	OECD Guideline 203 (Fish, Acute Toxicity Test)
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatic 64742-48-9	Value type	EL50
	Value	> 1,000 mg/l
	Acute Toxicity Study	Daphnia
	Exposure time	48 h
	Species	Daphnia magna
	Method	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatic 64742-48-9	Value type	EL50
	Value	> 1,000 mg/l
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	Pseudokirchneriella subcapitata
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)

	Value type	NOELR
	Value	1,000 mg/l
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	Pseudokirchneriella subcapitata
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
butane 106-97-8	Value type	LC50
	Value	27.98 mg/l
	Acute Toxicity Study	Fish
	Exposure time	96 h
	Species	
	Method	QSAR (Quantitative Structure Activity Relationship)
butane 106-97-8	Value type	EC50
	Value	14.22 mg/l
	Acute Toxicity Study	Daphnia
	Exposure time	48 h
	Species	
	Method	QSAR (Quantitative Structure Activity Relationship)
butane 106-97-8	Value type	EC50
	Value	7.71 mg/l
	Acute Toxicity Study	Algae
	Exposure time	96 h
	Species	
	Method	QSAR (Quantitative Structure Activity Relationship)
Distillates (petroleum), solvent-dewaxed heavy paraffinic < 3%DMSO 64742-65-0	Value type	LC50
	Value	> 5,000 mg/l
	Acute Toxicity Study	Fish
	Exposure time	96 h
	Species	Oncorhynchus mykiss
	Method	OECD Guideline 203 (Fish, Acute Toxicity Test)
Distillates (petroleum), solvent-dewaxed heavy paraffinic < 3%DMSO 64742-65-0	Value type	EC50
	Value	> 1,000 mg/l
	Acute Toxicity Study	Daphnia
	Exposure time	48 h
	Species	Daphnia magna
	Method	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Distillates (petroleum), solvent-dewaxed heavy paraffinic < 3%DMSO 64742-65-0	Value type	NOELR
	Value	100 mg/l
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	Pseudokirchneriella subcapitata
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
Petrolatum 8009-03-8	Value type	LC50
	Value	3,779 mg/l
	Acute Toxicity Study	Fish
	Exposure time	96 h
	Species	Oncorhynchus mykiss
	Method	OECD Guideline 203 (Fish, Acute Toxicity Test)
Petrolatum 8009-03-8	Value type	EC50
	Value	1,425 mg/l
	Acute Toxicity Study	Daphnia
	Exposure time	48 h
	Species	Daphnia magna
	Method	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Petrolatum 8009-03-8	Value type	EC50
	Value	> 1,000 mg/l
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	not specified
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
	Value type	
	Value	100 mg/l
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	Pseudokirchneriella subcapitata
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
Petrolatum 8009-03-8	Value type	EC0
	Value	1,000 mg/l
	Acute Toxicity Study	Bacteria
	Exposure time	30 min

	Species	not specified
	Method	not specified
Sulfonic acids, petroleum, sodium salts 68608-26-4	Value type	LC50
	Value	> 100 mg/l
	Acute Toxicity Study	Fish
	Exposure time	96 h
	Species	Oncorhynchus mykiss
	Method	OECD Guideline 203 (Fish, Acute Toxicity Test)
Sulfonic acids, petroleum, sodium salts 68608-26-4	Value type	EC50
	Value	> 100 mg/l
	Acute Toxicity Study	Daphnia
	Exposure time	48 h
	Species	Daphnia magna
	Method	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Sulfonic acids, petroleum, sodium salts 68608-26-4	Value type	ErC50
	Value	> 100 mg/l
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
	Value type	NOEC
	Value	100 mg/l
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
Sulfonic acids, petroleum, sodium salts 68608-26-4	Value type	EC0
	Value	620 mg/l
	Acute Toxicity Study	Bacteria
	Exposure time	30 min
	Species	Pseudomonas putida
	Method	DIN 38412, part 27 (Bacterial oxygen consumption test)

Persistence and degradability:

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatic 64742-48-9	Result	readily biodegradable
	Route of application	aerobic
	Degradability	80 %
	Method	OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test)
butane 106-97-8	Result	readily biodegradable
	Route of application	aerobic
	Degradability	> 60 %
	Method	OECD 301 A - F
Distillates (petroleum), solvent-dewaxed heavy paraffinic < 3%DMSO 64742-65-0	Result	not readily biodegradable.
	Route of application	aerobic
	Degradability	6 %
	Method	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)
propane 74-98-6	Result	readily biodegradable
	Route of application	aerobic
	Degradability	> 60 %
	Method	OECD 301 A - F
Petrolatum 8009-03-8	Result	not readily biodegradable.
	Route of application	aerobic
	Degradability	51 %
	Method	ISO 10708 (BODIS-Test)
Isobutane 75-28-5	Result	readily biodegradable
	Route of application	aerobic
	Degradability	> 60 %
	Method	OECD 301 A - F
Sulfonic acids, petroleum, sodium salts 68608-26-4	Result	not readily biodegradable.
	Route of application	aerobic
	Degradability	1 - 7 %
	Method	EU Method C.4-E (Determination of the "Ready" BiodegradabilityClosed Bottle Test)
	Result	
	Route of application	aerobic
	Degradability	85.2 %

	Method	OECD Guideline 302 B (Inherent biodegradability: Zahn-Wellens/EMPA Test)

Bioaccumulative potential / Mobility in soil:

butane 106-97-8	LogPow	2.31
	Temperature	20 °C
	Method	other (measured)
Isobutane 75-28-5	LogPow	2.88
	Temperature	20 °C
	Method	OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)

Section 13. Disposal considerations

Product

Method of disposal: Dispose of in accordance with local and national regulations.

Packaging

Disposal of uncleaned packages: Packaging that cannot be cleaned are to be disposed of in the same manner as the product.

Section 14. Transport information

Road transport ADR:

Class:	2
Packing group:	
Classification code:	5F
Hazard ident. number:	
UN no.:	1950
Label:	2.1
Technical name:	AEROSOLS

Railroad transport RID:

Class:	2
Packing group:	
Classification code:	5F
Hazard ident. number:	23
UN no.:	1950
Label:	2.1
Technical name:	AEROSOLS

Inland water transport ADN:

Class:	2
Packing group:	
Classification code:	5F
Hazard ident. number:	
UN no.:	1950
Label:	2.1
Technical name:	AEROSOLS

Marine transport IMDG:

Class:	2.1
Packing group:	
UN no.:	1950
Label:	2.1
EmS:	F-D ,S-U
Seawater pollutant:	-
Proper shipping name:	AEROSOLS

Air transport IATA:

Class:	2.1
Packing group:	
Packaging instructions (passenger):	203
Packaging instructions (cargo):	203
UN no.:	1950
Label:	2.1
Proper shipping name:	Aerosols, flammable

Section 15. Regulatory information

Regulatory Information: This Safety Data Sheet has been generated based on

LAW ON CHEMICALS No. 69/2025/QH15, issued on June 14, 2025;

Decree No. 24/2026/NĐ-CP, issued on January 17, 2026, ON THE LISTS OF CHEMICALS GOVERNED BY THE LAW ON CHEMICALS;

Decree No. 25/2026/NĐ-CP, issued on January 17, 2026, DETAILED REGULATIONS AND MEASURES FOR ORGANIZING AND GUIDING THE IMPLEMENTATION OF CERTAIN ARTICLES OF THE LAW ON CHEMICALS CONCERNING THE DEVELOPMENT OF THE CHEMICAL INDUSTRY AND CHEMICAL SAFETY AND SECURITY;

Decree No. 26/2026/NĐ-CP, issued on January 17, 2026, DETAILED REGULATIONS AND GUIDELINES FOR IMPLEMENTING CERTAIN ARTICLES OF THE LAW ON CHEMICALS REGARDING THE MANAGEMENT OF CHEMICAL ACTIVITIES AND HAZARDOUS CHEMICALS IN PRODUCTS AND GOODS;

Circular No. 01/2026/TT-BCT, issued on January 17, 2026, DETAILED REGULATIONS AND GUIDELINES FOR IMPLEMENTING CERTAIN ARTICLES OF THE LAW ON CHEMICALS AND GOVERNMENT DECREE NO. 26/2026/ND-CP DETAILING AND GUIDING THE IMPLEMENTATION OF CERTAIN ARTICLES OF THE LAW ON CHEMICALS REGARDING THE MANAGEMENT OF CHEMICAL ACTIVITIES AND HAZARDOUS CHEMICALS IN PRODUCTS AND GOODS;

Circular No. 02/2026/TT-BCT, issued on January 17, 2026, REGULATIONS ON SOME IMPLEMENTATION MEASURES OF THE LAW ON CHEMICALS AND GOVERNMENT DECREE NO. 25/2026/ND-CP DETAILING AND PROVIDING MEASURES FOR ORGANIZING AND GUIDING THE IMPLEMENTATION OF SOME ARTICLES OF THE LAW ON CHEMICALS CONCERNING THE DEVELOPMENT OF THE CHEMICAL INDUSTRY AND CHEMICAL SAFETY AND SECURITY;

Decree No. 161/2024/ND-CP, issued on December 18, 2024, ON LIST OF DANGEROUS GOODS, TRANSPORT OF DANGEROUS GOODS AND PROCEDURES FOR ISSUANCE OF LICENSES OR CERTIFICATES OF COMPLETION OF TRAINING PROGRAMS FOR DRIVERS OR ESCORTS TRANSPORTING DANGEROUS GOODS BY ROAD;

Decree No. 34/2024/NĐ-CP, issued on March 31, 2024, ON LIST OF DANGEROUS GOODS, TRANSPORT OF DANGEROUS GOODS BY INLAND WATERCRAFT;

Decree No. 33/2024/NĐ-CP, issued on March 27, 2024, IMPLEMENTING THE CONVENTION ON THE PROHIBITION OF THE DEVELOPMENT, PRODUCTION, STOCKPILING AND USE OF CHEMICAL WEAPONS AND ON THEIR;

Decree No. 37/2026/NĐ-CP, issued on January 23, 2026, ELABORATING CERTAIN ARTICLES

AND MEASURES FOR ORGANIZING AND GUIDING THE IMPLEMENTATION OF THE LAW ON PRODUCT AND GOODS QUALITY.

If other regulatory information applies that is not already provided or updated elsewhere in this Safety Data Sheet, then it is described in this subsection.

Global inventory status:

Regulatory list	Notification
TCSI	yes
TSCA	yes
DSL	yes
KECI (KR)	yes
PICCS (PH)	yes
IECSC	yes

Section 16. Other information

Disclaimer:

This Safety Data Sheet has been generated based on Law On Chemicals No. 69/2025/QH15; Decree No. 24/2026/NĐ-CP; Decree No. 25/2026/NĐ-CP; Decree No. 26/2026/NĐ-CP; Circular No. 01/2026/TT-BCT; Circular No. 02/2026/TT-BCT; Decree No. 161/2024/ND-CP; Decree No. 34/2024/NĐ-CP; Decree No. 33/2024/NĐ-CP, and Decree No. 37/2026/NĐ-CP.
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