

SECTION 1 Identification

1.1. Product identifier

Product form : Mixture
Product name : Gly-Vak
Product code : Formula : LB-GLYVAK/4
Part No : SP-GVAK series

1.2. Other means of identification

No additional information available

1.3. Recommended use of the chemical and restrictions on use

Recommended use : Cleaning agent, Industrial use

1.4. Supplier's details

Supplier

Celeste Industries Corporation
8007 Industrial Park Road
Easton, Maryland 21601 USA
T 1-410-822-5775
info@celestecorp.com - www.celestecorp.com

Distributor

ITW Permatex Canada
2360 Bristol Circle, Ste 101
Oakville, ON, L6H 6M5
Canada
T 1-800-241-8334

1.5. Emergency phone number

Emergency number : For Chemical Emergency, Spill, Leak, Fire, Exposure or Accident call CHEMTREC (24 hours) within USA and CANADA: 1-800-424-9300
Outside USA and Canada (collect call accepted): 1-703-527-3883

SECTION 2 Hazard identification

2.1. Classification of the substance or mixture

GHS classification

Skin corrosion/irritation, Category 1C
Serious eye damage/eye irritation, Category 1

2.2. Label elements

GHS labelling

Hazard pictograms (GHS) :



Signal word (GHS) :

Danger

Hazard statements (GHS) :

Causes severe skin burns and eye damage

Precautionary statements (GHS) :

Do not breathe dust, fume, gas, mist, spray, vapours.
Wash hands, forearms and face thoroughly after handling.
Wear protective clothing, protective gloves, eye protection, face protection.
If swallowed: rinse mouth. Do NOT induce vomiting.
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.

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IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Immediately call a poison center or doctor.
Store locked up.
Dispose of contents and container to a hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

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

Not applicable.

SECTION 3 Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Chemical name / Synonyms	Product identifier	Conc. (% w/w)
L-Lactic acid	L-Lactic acid Propanoic acid, 2-hydroxy-, (S)- / (S)-2-Hydroxypropanoic acid / (S)-Lactic acid / (S)-(+)-Lactic acid / L-(+)-Lactic acid / (+)-Lactic acid / Lactic acid, L- / Propanoic acid, 2-hydroxy-, (2S)- / Sarcosylactic acid / (S)-(+)-2-Hydroxypropanoic acid / (+)-2-Hydroxypropanoic acid / L-2-Hydroxypropanoic acid / L-(+)-lactic acid / Lactic acid, l-	CAS-No.: 79-33-4	3 - 7
Sodium 1-octanesulfonate	Sodium 1-octanesulfonate 1-Octanesulfonic acid, sodium salt / Octylsulfonate, sodium / Sodium octanesulphonate / 1-Octanesulfonic acid, sodium salt (1:1) / Sodium octane-1-sulphonate / 1-Octanesulfonate, sodium / Sodium octane-1-sulphonate monohydrate / Sodium octane-1-sulfonate / Sodium caprylyl sulfonate	CAS-No.: 5324-84-5	0.5-1.5
Benzenesulfonic acid, C10-16-alkyl derivatives (Alt CAS 27176-87-0 85536-14-7)	Benzenesulfonic acid, C10-16-alkyl derivatives Benzenesulphonic acid, C10-16-alkyl derivatives / C10-16-Alkylbenzenesulfonic acid / Alkyl(C10-16)benzenesulfonic acid / Alkyl(C10-16) derivatives of benzenesulfonic acid	CAS-No.: 68584-22-5	0.5-1.5
Dodecylbenzenesulfonic acid	Dodecylbenzenesulfonic acid Benzenesulfonic acid, dodecyl- / Dodecylbenzenesulphonic acid / DODECYLBENZENESULFONIC ACID / DODECYLBENZENE SULFONIC ACID / dodecylbenzenesulfonic acid / Dodecylbenzene sulfonic acid	CAS-No.: 27176-87-0	0.5-1.5

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Name	Chemical name / Synonyms	Product identifier	Conc. (% w/w)
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivatives	Benzenesulfonic acid, 4-C10-13-sec-alkyl derivatives Derivatives, benzenesulfonic acid, 4-C10-13-sec- alkyl / Benzenesulphonic acid, 4-C10-13-sec-alkyl derivatives / 4-C10-13-sec-alkylbenzenesulfonic acid / 4-C10-13-sec-Alkylbenzenesulfonic acid / Benzenesulfonic acid, C10-13-sec-alkyl derivatives / 4-C10-13-sec-Alkyl benzenesulfonic acid derivatives	CAS-No.: 85536-14-7	0.5-1.5
Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy-, mono-C8-10-alkyl ethers, phosphates	Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy-, mono-C8-10-alkyl ethers, phosphates C8-10-Alkyl alcohol ethoxylate, phosphate ester / Polyethyleneglycol monoalkyl (C8-10) ether phosphate / Polyethylene glycol mono alkyl (C8-10) ether phosphate / .alpha.-Hydroxy-.omega.-hydroxypoly(oxy-1,2-ethanediyl)alkyl (C8-10) ethers phosphate / C8-10 Alkyl alcohol ethoxylate (4EO), phosphate ester	CAS-No.: 68130-47-2	0.1-1
Sodium hydroxide	Caustic soda / Sodium hydroxide (Na(OH)) / SODIUM HYDROXIDE / LYE / Lye solution	CAS-No.: 1310-73-2	0.1-0.5

*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

SECTION 4 First-aid measures

4.1. Description of necessary first-aid measures

First-aid measures after inhalation	: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER/doctor.
First-aid measures after skin contact	: If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTER or doctor.
First-aid measures after eye contact	: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.
First-aid measures after ingestion	: IF SWALLOWED: rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor. Never give anything by mouth to an unconscious person.

4.2. Most important symptoms/effects, acute and delayed

Symptoms/effects after inhalation	: Causes burns to the respiratory system.
Symptoms/effects after skin contact	: Causes severe skin burns. Symptoms may include redness, pain, blisters.
Symptoms/effects after eye contact	: Causes serious eye damage. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva. May cause burns.
Symptoms/effects after ingestion	: May be harmful if swallowed. May cause gastrointestinal irritation, nausea, vomiting and diarrhea. May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.

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

Other medical advice or treatment	: Symptoms may be delayed. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
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SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media	: Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
Unsuitable extinguishing media	: Do not use water jet.

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5.2. Specific hazards arising from the chemical

Fire hazard : Products of combustion may include, and are not limited to: oxides of carbon. Irritating fumes.

5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting : Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).

SECTION 6 Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.

For non-emergency personnel

Emergency procedures : Do not touch or walk on the spilled product.

For emergency responders

Environmental precautions : Prevent entry to sewers and public waters.

6.2. Methods and materials for containment and cleaning up

For containment : Stop leak if safe to do so. Absorb and/or contain spill with inert material (sand, vermiculite or other appropriate material), then place in suitable container. Do not flush into surface water or sewer system. Wear recommended personal protective equipment.

Methods for cleaning up : Sweep or shovel spills into appropriate container for disposal. Provide ventilation.

For further information refer to section 8: "Exposure controls/personal protection"

SECTION 7 Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Do not get in eyes, on skin, or on clothing. Do not breathe dust, fume, gas, mist, spray, vapours. Do not swallow. When using do not eat, drink or smoke. Handle and open container with care. Provide adequate ventilation.

Hygiene measures : Take off immediately all contaminated clothing and wash it before reuse. Wash hands, forearms and face thoroughly after handling.

7.2. Conditions for safe storage, including incompatibilities

Storage conditions : Keep out of the reach of children. Keep container tightly closed. Store in a dry, cool and well-ventilated place. Keep out of direct sunlight. Store locked up.

SECTION 8 Exposure controls/personal protection

8.1. Control parameters

Sodium hydroxide (1310-73-2)

USA - ACGIH - Occupational Exposure Limits

ACGIH® TLV® C

2 mg/m³

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Sodium hydroxide (1310-73-2)	
USA - OSHA - Occupational Exposure Limits	
OSHA PEL TWA	2 mg/m ³
USA - IDLH - Occupational Exposure Limits	
IDLH	10 mg/m ³
USA - NIOSH - Occupational Exposure Limits	
NIOSH REL C	2 mg/m ³
US-NIOSH chemical category	SK: DIR(COR) Apr 2011

8.2. Appropriate engineering controls

Appropriate engineering controls	: Ensure good ventilation of the work station. Provide readily accessible eye wash stations and safety showers.
Environmental exposure controls	: Avoid release to the environment.

8.3. Individual protection measures, such as personal protective equipment

Hand protection:
Wear suitable gloves resistant to chemical penetration. Consult glove manufacturer's product information on material suitability and material thickness.
Eye protection:
Wear eye/face protection
Skin and body protection:
Wear suitable protective clothing
Respiratory protection:
In case of insufficient ventilation, wear suitable respiratory equipment. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. SDSs cannot provide detailed and complete respiratory protection guidelines. Selection of respiratory protection must be done by a qualified person who has assessed the work environment.

Other information:

Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product.

SECTION 9 Physical and chemical properties

9.1. Basic physical and chemical properties

Physical state	: Liquid
Appearance	: Liquid.
Colour	: Amber. Light tan
Odour	: None
Odour threshold	: No data available
pH	: < 3
Melting point	: 0 °C / 32 °F
Freezing point	: No data available
Boiling point	: 100 °C / 212 °F
Flash point	: No data available
Flammability (solid, gas)	: Not flammable.
Vapour pressure	: No data available
Relative vapour density at 20°C/ 68 °F	: No data available
Relative density	: 0.95 – 1.05
Solubility	: Soluble in water.

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According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2024 and the Hazardous Products Regulations (HPR) WHMIS 2022

Partition coefficient n-octanol/water	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Explosive limits	: No data available
Explosive properties	: Not explosive.
Oxidising properties	: Not oxidising.
Particle characteristics	: No data available

L-Lactic acid

Boiling point	> 100 °C
Vapour pressure	≈ 0.0286 mm Hg Temp.: 25 °C
Particle characteristics	No data available

Sodium hydroxide

Boiling point	1390 °C
Vapour pressure	0 hPa (at 20 °C)
Particle characteristics	No data available

Dodecylbenzenesulfonic acid

Boiling point	204.5 °C
Flash point	149 °C (closed cup)
Auto-ignition temperature	> 300 °C
Vapour pressure	0 mm Hg Temp.: 25 °C Remarks on result: 'other:'
Particle characteristics	No data available

Benzenesulfonic acid, 4-C10-13-sec-alkyl derivatives

Boiling point	189.05 °C Atm. press.: 102,1 kPa
Flash point	196.9 °C (closed cup)
Particle characteristics	No data available

9.2. Data relevant with regard to physical hazard classes (supplemental)

No additional information available

SECTION 10 Stability and reactivity

10.1. Reactivity

No dangerous reactions known under normal conditions of use.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

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According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2024 and the Hazardous Products Regulations (HPR) WHMIS 2022

10.4. Conditions to avoid

Heat. Incompatible materials.

10.5. Incompatible materials

Strong bases. Strong oxidizers.

10.6. Hazardous decomposition products

May include, and are not limited to: oxides of carbon. Irritating fumes.

SECTION 11 Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified.

Acute toxicity (dermal) : Not classified.

Acute toxicity (inhalation) : Not classified.

Benzenesulfonic acid, C10-16-alkyl derivatives (68584-22-5)

LD50 oral rat	775 mg/kg (Source: CHEMVIEW)
LD50 dermal rabbit	> 5000 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
LC50 inhalation rat	> 1.9 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity)

L-Lactic acid (79-33-4)

LD50 oral rat	3730 mg/kg (Source: IUCLID)
LD50 dermal rabbit	> 2000 mg/kg (Source: NICNAS)
LC50 inhalation rat	> 7.94 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity)

Sodium hydroxide (1310-73-2)

LD50 oral rat	325 mg/kg (Source: OECD_SIDS)
LD50 dermal rabbit	1350 mg/kg (Source: NLM_HSDB)

Dodecylbenzenesulfonic acid (27176-87-0)

LD50 oral rat	1260 mg/kg (Source: JAPAN_GHS)
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Remarks on results: other:
LD50 dermal rabbit	631 – 1000 mg/kg (Source: CHEMVIEW)
LC50 inhalation rat	0.31 mg/l air Animal: rat, Animal sex: male, Remarks on results: other:

Benzenesulfonic acid, 4-C10-13-sec-alkyl derivatives (85536-14-7)

LD50 oral rat	1219 mg/kg (Source: IUCLID)
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)

Skin corrosion/irritation : Causes severe skin burns.
pH: < 3

Sodium hydroxide (1310-73-2)

pH	12 (conc: 0.05 % (solution))
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Dodecylbenzenesulfonic acid (27176-87-0)	
pH	< 1 Temp.: 25 °C Remarks on result: 'other:'

Serious eye damage/irritation : Causes serious eye damage.
pH: < 3

Sodium hydroxide (1310-73-2)	
pH	12 (conc: 0.05 % (solution))

Dodecylbenzenesulfonic acid (27176-87-0)	
pH	< 1 Temp.: 25 °C Remarks on result: 'other:'

Respiratory or skin sensitisation : Not classified.

Germ cell mutagenicity : Not classified.

Carcinogenicity : Not classified.

Reproductive toxicity : Not classified.

STOT-single exposure : Not classified.

Sodium hydroxide (1310-73-2)	
STOT-single exposure	May cause respiratory irritation.

STOT-repeated exposure : Not classified.

Sodium 1-octanesulfonate (5324-84-5)	
NOAEL (oral, rat, 90 days)	> 430 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)

Benzenesulfonic acid, C10-16-alkyl derivatives (68584-22-5)	
NOAEL (oral, rat, 90 days)	500 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity in Rodents)
NOAEL (dermal, rat/rabbit, 90 days)	> 1000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 410 (Repeated Dose Dermal Toxicity: 21/28-Day Study)

Dodecylbenzenesulfonic acid (27176-87-0)	
LOAEL (oral, rat, 90 days)	200 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
LOAEL (dermal, rat/rabbit, 90 days)	286 mg/kg bodyweight Animal: rat, Animal sex: male
NOAEL (oral, rat, 90 days)	100 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
NOAEL (dermal, rat/rabbit, 90 days)	< 286 mg/kg bodyweight Animal: rat, Animal sex: male

Aspiration hazard : Not classified.

Gly-Vak	
Viscosity, kinematic	No data available

Poly(oxy-1,2-ethanediyl), .alpha.-hydro.-omega.-hydroxy-, mono-C8-10-alkyl ethers, phosphates (68130-47-2)	
Viscosity, kinematic	No data available

Sodium 1-octanesulfonate (5324-84-5)	
Viscosity, kinematic	No data available

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Benzenesulfonic acid, C10-16-alkyl derivatives (68584-22-5)	
Viscosity, kinematic	No data available

L-Lactic acid (79-33-4)	
Viscosity, kinematic	No data available

Sodium hydroxide (1310-73-2)	
Viscosity, kinematic	No data available

Dodecylbenzenesulfonic acid (27176-87-0)	
Viscosity, kinematic	905.66 mm ² /s

Benzenesulfonic acid, 4-C10-13-sec-alkyl derivatives (85536-14-7)	
Viscosity, kinematic	1618.868 mm ² /s

Symptoms/effects after inhalation	: Causes burns to the respiratory system.
Symptoms/effects after skin contact	: Causes severe skin burns. Symptoms may include redness, pain, blisters.
Symptoms/effects after eye contact	: Causes serious eye damage. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva. May cause burns.
Symptoms/effects after ingestion	: May be harmful if swallowed. May cause gastrointestinal irritation, nausea, vomiting and diarrhea. May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.
Other information	: Likely routes of exposure: ingestion, inhalation, skin and eye.

SECTION 12 Ecological information

12.1. Ecotoxicity

Ecology - general	: May cause long-term adverse effects in the aquatic environment.
Hazardous to the aquatic environment, short-term (acute)	: Not classified.
Hazardous to the aquatic environment, long-term (chronic)	: Not classified.

Sodium 1-octanesulfonate (5324-84-5)	
LC50 - Fish [1]	> 100 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)
EC50 - Crustacea [1]	421 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	> 100 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)

Benzenesulfonic acid, C10-16-alkyl derivatives (68584-22-5)	
LC50 - Fish [1]	3 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static] Source: IUCLID)
EC50 - Crustacea [1]	2.9 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 72h - Algae [1]	> 1000 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
EC50 96h - Algae [1]	> 1000 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)

L-Lactic acid (79-33-4)	
LC50 - Fish [1]	320 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [semi-static] Source: IUCLID)
EC50 - Crustacea [1]	240 mg/l (Exposure time: 48 h - Species: Daphnia magna)

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L-Lactic acid (79-33-4)	
LC50 - Fish [2]	100 – 180 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static] Source: EPA)
EC50 - Crustacea [2]	180 – 320 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
Sodium hydroxide (1310-73-2)	
LC50 - Fish [1]	45.4 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static] Source: IUCLID)
EC50 - Crustacea [1]	40 mg/l
Dodecylbenzenesulfonic acid (27176-87-0)	
LC50 - Fish [1]	10.8 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])
EC50 - Crustacea [1]	5.88 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 - Fish [2]	3.5 – 10 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [static])
EC50 72h - Algae [1]	65.4 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
EC50 72h - Algae [2]	21 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
EC50 96h - Algae [1]	29 mg/l (Species: Pseudokirchneriella subcapitata)
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivatives (85536-14-7)	
LC50 - Fish [1]	5.6 mg/l (Exposure time: 96 h - Species: Cyprinus carpio [flow-through] Source: IUCLID)
EC50 - Crustacea [1]	5.2 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 72h - Algae [1]	36 mg/l (Species: Desmodesmus subspicatus)
NOEC (chronic)	1.18 mg/l Test organisms (species): Daphnia magna Duration: '21 d'

12.2. Persistence and degradability

Gly-Vak	
Persistence and degradability	Not established.
Poly(oxy-1,2-ethanediyl), .alpha.-hydro.-omega.-hydroxy-, mono-C8-10-alkyl ethers, phosphates (68130-47-2)	
Persistence and degradability	Rapidly degradable
Sodium 1-octanesulfonate (5324-84-5)	
Persistence and degradability	Rapidly degradable
Benzenesulfonic acid, C10-16-alkyl derivatives (68584-22-5)	
Persistence and degradability	Rapidly degradable
L-Lactic acid (79-33-4)	
Persistence and degradability	Rapidly degradable
Sodium hydroxide (1310-73-2)	
Persistence and degradability	Rapidly degradable
Dodecylbenzenesulfonic acid (27176-87-0)	
Persistence and degradability	Rapidly degradable
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivatives (85536-14-7)	
Persistence and degradability	Rapidly degradable

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12.3. Bioaccumulative potential

Gly-Vak

Bioaccumulative potential Not established.

Benzenesulfonic acid, C10-16-alkyl derivatives (68584-22-5)

Partition coefficient n-octanol/water 2 (at 23 °C)

L-Lactic acid (79-33-4)

Partition coefficient n-octanol/water -0.54 (at 25 °C)

Dodecylbenzenesulfonic acid (27176-87-0)

BCF - Fish [1] (119 L/kg (whole body w.w.))

Benzenesulfonic acid, 4-C10-13-sec-alkyl derivatives (85536-14-7)

Partition coefficient n-octanol/water 2.2 (at 23 °C (at pH 3.7))

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects



Ozone : Not classified.
Fluorinated greenhouse gases : No
Other information : No other effects known.

SECTION 13 Disposal considerations

Product/Packaging disposal recommendations : Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

SECTION 14 Transport information

In accordance with DOT / TDG

DOT	TDG
14.1. UN number	
UN1760	UN1760
14.2. Proper Shipping Name	
Corrosive liquids, n.o.s. (L-Lactic acid)	CORROSIVE LIQUID, N.O.S. (L-Lactic acid)
14.3. Transport hazard class(es)	
8	8
	
14.4. Packing group	
III	III

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DOT	TDG
14.5. Environmental hazards	
Dangerous for the environment: No	Dangerous for the environment: No
No supplementary information available.	

14.6. Transport in bulk

Not applicable

14.7. Special precautions for user

Special transport precautions : Do not handle until all safety precautions have been read and understood.

DOT

UN-No. (DOT) : UN1760
DOT Special Provisions (49 CFR 172.102) : IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). 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, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672).
T7 - 4 178.274(d)(2) Normal..... 178.275(d)(3)
TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = $97 / (1 + a (tr - tf))$ Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling.
TP28 - A portable tank having a minimum test pressure of 2.65 bar (265 kPa) may be used provided the calculated test pressure is 2.65 bar or less based on the MAWP of the hazardous material, as defined in 178.275 of this subchapter, where the test pressure is 1.5 times the MAWP.
DOT Packaging Exceptions (49 CFR 173.xxx) : 154
DOT Packaging Non Bulk (49 CFR 173.xxx) : 203
DOT Packaging Bulk (49 CFR 173.xxx) : 241
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) : 5 L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) : 60 L
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 : 40 - Stow "clear of living quarters"

TDG

UN-No. (TDG) : UN1760

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According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2024 and the Hazardous Products Regulations (HPR) WHMIS 2022

TDG Special Provisions	: 16 - (1) The technical name of at least one of the most dangerous substances that predominantly contributes to the danger or dangers posed by the dangerous goods must be shown, in parentheses, on the shipping document following the shipping name in accordance with clause 3.5(1)(c)(ii)(A). The technical name must also be shown, in parentheses, on a small means of containment or on a tag following the shipping name in accordance with subsections 4.11(2) and (3). (2) Despite subsection (1), the technical name for the following dangerous goods is not required to be shown on a shipping document or on a small means of containment when Canadian law for domestic transport or an international convention for international transport prohibits the disclosure of the technical name: (a) UN1544, ALKALOID SALTS, SOLID, N.O.S. or ALKALOIDS, SOLID, N.O.S; (b) UN1851, MEDICINE, LIQUID, TOXIC, N.O.S; (c) UN3140, ALKALOID SALTS, LIQUID, N.O.S. or ALKALOIDS, LIQUID, N.O.S; (d) UN3248, MEDICINE, LIQUID, FLAMMABLE, TOXIC, N.O.S; or (e) UN3249, MEDICINE, SOLID, TOXIC, N.O.S. (3) Despite subsection (1), the technical name for the following dangerous goods is not required to be shown on a small means of containment: (a) UN2814, INFECTIOUS SUBSTANCE, AFFECTING HUMANS; or (b) UN2900, INFECTIOUS SUBSTANCE, AFFECTING ANIMALS.
Explosive Limit and Limited Quantity Index	: 5 L
Excepted quantities (TDG)	: E1
Passenger Carrying Road Vehicle or Passenger Carrying Railway Vehicle Index	: 5 L
Emergency Response Guide (ERG) Number	: 154

SECTION 15 Regulatory information

15.1. Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

All components of this product are listed, or excluded from listing, on the Canadian DSL (Domestic Substances List) and NDSL (Non-Domestic Substances List) inventories

15.2. International regulations

No additional information available

15.3. State regulations



WARNING:

This product can expose you to chemicals including Sulfuric acid, which is known to the State of California to cause cancer, and Sulfur dioxide, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

SECTION 16 Other Information

According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2024 and the Hazardous Products Regulations (HPR) WHMIS 2022

Revision date	: 2025-10-10
Issue date	: 2025-10-10
Other information	: None.
Prepared by	: Nexreg Compliance Inc. www.Nexreg.com



SDS HazCom 2024 - WHMIS 2022 (Nexreg) 2025

Gly-Vak

Safety Data Sheet

According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2024 and the Hazardous Products Regulations (HPR) WHMIS 2022

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