

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Mixture, liquid
 Product name. : Gly-Vak
 Product group : Trade product
 Product code : LB-GLYVAK/2
 Part number : SP-GVAK series

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

1.2.1. Relevant identified uses

Use of the substance/preparation : Scale removal in vacuum waste lines

1.2.2. Uses advised against

No data available

1.3. Details of the supplier of the safety data sheet

Celeste Industries Corporation
 8221 Teal Drive, suite 405
 Easton, Maryland 21601 (USA)
 Within USA: (410) 822-5775
 International: 00 (1) 410-822-5775
 e-mail: info@celestecorp.com

1.4. Emergency telephone number

Emergency contact 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: Hazards identification

2.1. Classification of the mixture

Classification according to CLP Regulation (EC) No 1272/2008

Eye Dam. 1, H318
 Skin Irrit. 2, H315
 STOT SE3, H335
 Full text of H-phrases: see section 16

Adverse physicochemical, human health and environmental effects

No data available

2.2. Label elements

Classification according to CLP Regulation (EC) No 1272/2008

Hazard Pictogram :



Signal Word : Danger

Hazard Statement : H318 – Causes serious eye damage
 : H315 – Causes skin irritation
 : H335 – May cause respiratory irritation

Precaution Statement : P280 – Wear protective gloves/protective clothing/eye protection/face protection.
 : P302 + P350 – IF ON SKIN: Gently wash with plenty of soap and water
 : P305 + P351 + P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.
 P260 – Do not breathe mist, vapors, or fumes.

2.3. Other hazards

No additional information available.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
I-(+)-lactic acid	CAS No. 79-33-4 EC No. 201-196-2	4.2 %	Eye Dam. 1, H318 Skin Irrit. 2, H315
Methanesulphonic acid	CAS No. 75-75-2 EC No. 200-898-6	1.75 %	Eye Dam. 1, H318 Met. Corr. 1, H290 Acute Tox. 4, H302 & H312 Skin Corr. 1B, H314 STOT SE 3, H335
Sodium dodecyl diphenyl ether disulfonate	CAS No. 119345-04-9 EC No. 601-601-6	< 2.0 %	Eye Dam. 1, H318 Aquatic Chronic 2, H411
Benzenesulfonic acid, C10-16-alkyl derivs.	CAS No. 68584-22-5 EC No. 271-528-9	< 2.0 %	Eye Irrit. 2, H319
Alanine, N,N-bis(carboxymethyl)-, sodium salt (1:3)	CAS No. 164462-16-2	< 1.4 %	Met. Corr. 1, H290

For a full text of phrases, see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

- First-aid measures after inhalation : If respiratory irritation occurs upon inhalation, remove to fresh air. Seek medical attention if symptoms develop or persist.
- First-aid measures after skin contact : If splashed or spilled on skin, rinse with plenty of water.
- First-aid measures after eye contact : Immediately flush eyes thoroughly with water for at least 15 minutes; seek medical treatment.
- First-aid measures after ingestion : Seek medical attention immediately. If the person is fully conscious, make him/her drink water. Never give an unconscious person anything to drink. Do not induce vomiting.

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

- Symptoms/injuries after inhalation : Inhalation of mist or aerosol may cause irritation to nose and throat
- Symptoms/injuries after skin contact : May cause irritation or drying of skin.
- Symptoms/injuries after eye contact : May cause damage to the eyes.
- Symptoms/injuries after ingestion : May cause irritation to the respiratory tract and to other mucous membranes.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media: : Carbon dioxide (CO₂). Dry chemical powder. Water spray.
- Unsuitable extinguishing media : None known.

5.2. Special hazards arising from the substance or mixture

- Fire hazard : Non combustible
- Reactivity : Stable under normal conditions of use.

5.3. Advice for firefighters

- Protective equipment for firefighters : Wear proper protective equipment including self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Eliminate all ignition sources if safe to do so. Ensure adequate ventilation. Avoid contact with skin and eyes.

6.1.1. For non-emergency personnel

- Protective equipment : Chemical resistant gloves as needed. Use splash goggles to prevent eye contact.

6.1.2. For emergency responders

- Protective equipment : Chemical resistant gloves. Use splash goggles when eye contact due to splashing is possible.

6.2. Environmental precautions

No special requirements

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6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal. For large spills, dike with dirt, then remove by vacuum truck for disposal.

6.4. Reference to other sections

Refer to sections 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Avoid contact with skin and eyes. Wear protective personal protection equipment.
Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures: : Provide adequate ventilation.
Storage condition(s) : Store in dry, cool, well-ventilated area; avoid freezing.

7.3. Specific end use(s)

No data available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No data available

8.2. Exposure controls

Appropriate engineering controls : Ensure adequate ventilation.
Personal protective equipment : Chemical resistant gloves; protective eye wear.



Hand protection : Chemical resistant gloves.
Eye protection : Wear protective eye ware.
Skin and body protection : Plastic apron to protect clothing. Wear suitable protective clothing.
Respiratory protection : Normally not required. Avoid breathing mist or fumes.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid
Appearance : Viscous
Colour : Amber, straw colored
Odour : None
Odour threshold : No data available
pH : < 2.0
Melting point : No data available
Freezing point : 0 °C
Boiling point : 100 °C
Flash point : None
Relative evaporation rate (butylacetate=1) : Not applicable
Flammability (solid, gas) : No data available
Explosive limits : Not applicable
Vapour pressure : No data available
Relative vapour density at 20 °C : Not applicable
Relative density : No data available
Density : 0.95 – 1.05
Solubility : Soluble in water
Log Pow : No data available
Log Kow : No data available
Self ignition temperature : No data available
Decomposition temperature : No data available
Viscosity, kinematic : No data available
Viscosity, dynamic : No data available
Explosive properties : Not explosive or oxidizing

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9.2. Other information

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions of use.

10.2. Chemical stability

Stable under normal conditions of use.

10.3. Possibility of hazardous reactions

None known.

10.4. Conditions to avoid

No data available

10.5. Incompatible materials

No data available

10.6. Hazardous decomposition products

None known.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

Gly-Vak	
LD50 oral rat	> 10000 mg/kg 10% Hydroxy acid
LD50 dermal rat	Not applicable – not absorbable through the skin

Skin corrosion/irritation : Causes skin irritation
pH: <2.0

Serious eye damage/irritation : Causes serious eye damage
pH: <2.0

Respiratory or skin sensitisation : May cause respiratory irritation

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated exposure) : Not classified

Aspiration hazard : Not classified

SECTION 12: Ecological information

12.1. Toxicity

No significant harmful effects anticipated.

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

Gly-Vak	
This substance/mixture does not meet the PBT criteria of REACH, annex XIII.	
This substance/mixture does not meet the vPvB criteria of REACH, annex XIII.	

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste) : Dispose of contents/container to comply with applicable local, national and international regulations.

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Waste disposal recommendations : Comply with local regulations for disposal.

SECTION 14: Transport information

Not classified as dangerous for transport.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

Contains no REACH candidate substance

Other regulations, restrictions and prohibition regulations : Conforms to Regulation (EC) No. 1907/2006, Annex II (REACH), as amended by (EU) No. 453/2010.

15.1.2. National regulations

No data available

15.2. Chemical safety assessment

CSA has not been established

SECTION 16: Other information

Sources of Key data : SDS, MSDS

Abbreviations and acronyms : ACGIH (American Conference of Government Industrial Hygienists). ASTM - American Society for Testing and Materials . CAS - Chemical Abstracts Service. CLP - Classification, Labelling and Packaging. CSR - Chemical Safety Report. EEC - European Economic Community. EC - European Community. GHS - Globally Harmonised System. HMIS - Hazardous Materials Identification System. MSDS - Material Safety Data Sheet. OSHA - Occupational Safety and Health Administration. Overland transport (ADR). PEL- Permissible Exposure Level. REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals. Relat - Relative. SDS - Safety Data Sheet . STEL- Short-Term Exposure Limit . TLV- Threshold Limit Value. TWA- Time Weighted Average.

Full text of -phrases:

Acute Tox. 4 (Dermal)	Acute toxicity (dermal) Category 4
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Eye Irrit. 2	Eye Irritant, Category 2
Skin Irrit. 2	Skin corrosion/irritation Category 2
Skin Corr. 1B	Skin corrosivity, Category 1
Aquatic Chronic, 2	Aquatic Chronic, Category 2
Met. Corr. 1	Metal Corrosive, Category 1
STOT SE 3	Specific Target Organ Toxicity, Single Exposure, Category 3 (Lungs)
H302	Harmful if swallowed
H312	Harmful if in contact with skin
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H318	Causes serious eye damage
H319	Causes serious eye irritation
H411	Toxic to aquatic life with long lasting effects
H290	May be corrosive to metals
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302 + P350	IF ON SKIN: Gently wash with plenty of soap and water
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P260	Do not breathe mist, vapors, or fumes.

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