# SAFETY DATA SHEET



## 1. Identification

Product identifier Gly-Vak®

Other means of identification

SP-GVAK series, (Formula: LB-GLYVAK/4) **Part Number** 

Recommended use Cleaning agent. Industrial Use.

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Supplier

**Company Name** Celeste Industries Corporation

**Address** 8007 Industrial Park Rd

Easton, Maryland 21601 (USA)

+1-410-822-5775 **Telephone Email** info@celestecorp.com

CHEMTREC (24 hours) within USA and CANADA: 1-800-424-9300 In Case of Emergency

Outside USA and Canada (collect call accepted): 1-703-527-3883

2. Hazard(s) identification

Physical hazards Corrosive to metals Category 1 **Health hazards** Skin corrosion/irritation Category 2

> Serious eye damage/eye irritation Category 1

Not classified. **Environmental hazards OSHA** defined hazards Not classified.

Label elements

Signal word Danger

**Hazard statement** May be corrosive to metals. Causes skin irritation. Causes serious eye damage.

**Precautionary statement** 

Prevention Keep only in original container. Wash thoroughly after handling. Wear protective gloves/protective

clothing/eye protection/face protection.

Response 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. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. Absorb

spillage to prevent material damage.

Store in corrosive resistant container with a resistant inner liner. Storage

**Disposal** Dispose of waste and residues in accordance with local authority requirements.

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information 2.5% of the mixture consists of component(s) of unknown acute oral toxicity. 2.5% of the mixture

consists of component(s) of unknown acute dermal toxicity. 7.16% of the mixture consists of component(s) of unknown acute inhalation toxicity. 2.5% of the mixture consists of component(s)

of unknown acute hazards to the aquatic environment. 2.5% of the mixture consists of

component(s) of unknown long-term hazards to the aquatic environment.

# 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
L(+)-lactic Acid		79-33-4	3 - 7

Material name: Gly-Vak® SDS US 1/8

Chemical name	Common name and synonyms	CAS number	%
4-dodecan-3-ylbenzenesulfonic acid		68584-22-5	0.5 - 1.5
Sodium octane-1-sulphonate monohydrate		5324-84-5	0.5 - 1.5
C8-10 Alkyl alcohol ethoxylate (4EO), -phosphate ester		68130-47-2	0.1 - 1
Sodium hydroxide		1310-73-2	0.1 - 1
Other components below reportable le	evels		< 96

### 4. First-aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Remove contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs: Get Skin contact

medical advice/attention. Wash contaminated clothing before reuse.

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if Eye contact

present and easy to do. Continue rinsing. Get medical attention immediately.

Rinse mouth. Get medical attention if symptoms occur. Ingestion

Most important symptoms/effects, acute and

delaved

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Skin irritation. May cause redness and pain.

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

General information Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

# 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical

During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting

equipment/instructions

Move containers from fire area if you can do so without risk.

Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials.

General fire hazards No unusual fire or explosion hazards noted.

# 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up This product is miscible in water. Prevent entry into waterways, sewer, basements or confined areas.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb spillage to prevent material damage. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid discharge into drains, water courses or onto the ground.

# **Environmental precautions**

7. Handling and storage Precautions for safe handling

Do not get this material in contact with eyes. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Material name: Gly-Vak® SDS US SP-GVAK series, (Formula: LB-GLYVAK/4) Version #: 02 Revision date: 12-15-2022 Issue date: 03-02-2021 2/8 Conditions for safe storage, including any incompatibilities

Store in a cool, dry place out of direct sunlight. Store in corrosive resistant container with a resistant inner liner. Store in tightly closed container. Keep only in the original container. Store away from incompatible materials (see Section 10 of the SDS).

### 8. Exposure controls/personal protection

#### Occupational exposure limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

Components	Туре	Value
Sodium hydroxide (CAS 1310-73-2)	PEL	2 mg/m3

# US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants

Components	туре	value
Sodium hydroxide (CAS 1310-73-2)	Ceiling	2 mg/m3

**US. ACGIH Threshold Limit Values** 

Components	Туре	Value	
Sodium hydroxide (CAS 1310-73-2)	Ceiling	2 mg/m3	

US NIOSH: Pocket Guide to Chemical Hazards

Components	Туре	Value	
Sodium hydroxide (CAS 1310-73-2)	Ceiling	2 mg/m3	

Biological limit values

No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station and safety shower.

Individual protection measures, such as personal protective equipment

**Eye/face protection** Wear safety glasses with side shields (or goggles) and a face shield.

Skin protection

Hand protection Wear appropriate chemical resistant gloves.Other Wear appropriate chemical resistant clothing.

**Respiratory protection** In case of insufficient ventilation, wear suitable respiratory equipment.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

### 9. Physical and chemical properties

**Appearance** 

Physical stateLiquid.FormLiquid.

Color Amber, Light tan.

Odor None.

Odor thresholdNot available.pH2.5 - 3.5Melting point/freezing point $32 \, ^{\circ} F (0 \, ^{\circ} C)$ 

Initial boiling point and boiling

range

212 °F (100 °C) estimated

Flash point Non-flammable.

Evaporation rate Not available.

Flammability (solid, gas) Non-flammable.

Material name: Gly-Vak® SDS US

Upper/lower flammability or explosive limits

Explosive limit - lower (%) Non-flammable. Explosive limit - upper (%) Non-flammable.

Property has not been measured. Vapor pressure Property has not been measured. Vapor density

Relative density 0.95 - 1.05

Solubility(ies)

Soluble in water. Solubility (water) **Partition coefficient** Not applicable.

(n-octanol/water)

Not applicable. **Auto-ignition temperature Decomposition temperature** Not applicable. Not available. **Viscosity** 

Other information

**Explosive properties** Not explosive.

Property has not been measured. Kinematic viscosity

Oxidizing properties Not oxidizing.

# 10. Stability and reactivity

Reactivity May be corrosive to metals.

Chemical stability Material is stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Contact with incompatible materials. Conditions to avoid Strong oxidizing agents. Metals. Incompatible materials

**Hazardous decomposition** 

products

Product

Carbon oxides.

# 11. Toxicological information

## Information on likely routes of exposure

Inhalation Prolonged inhalation may be harmful.

Skin contact Causes skin irritation.

Causes serious eye damage. Eye contact

Expected to be a low ingestion hazard. Ingestion

Symptoms related to the physical, chemical and toxicological characteristics

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Skin irritation. May cause

Test Results

redness and pain.

Species

### Information on toxicological effects

Acute toxicity Not expected to be acutely toxic.

Troduct	Орсско	rest results	
Gly-Vak®			_
<u>Acute</u>			
Dermal			
ATEmix		130000 mg/kg	
Oral			
ATEmix		33000 mg/kg	
Components	Species	Test Results	

4-dodecan-3-ylbenzenesulfonic acid (CAS 68584-22-5)

**Acute Dermal** 

LD50 Rabbit > 2000 mg/kg, 24 Hours

Oral

LD50 Rat > 2000 mg/kg

Causes skin irritation. Skin corrosion/irritation

Material name: Gly-Vak® SDS US 4/8 Serious eye damage/eye

irritation

Causes serious eye damage.

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

Skin sensitization This product is not expected to cause skin sensitization.

Germ cell mutagenicity No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Not classifiable as to carcinogenicity to humans. Carcinogenicity

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

**US. National Toxicology Program (NTP) Report on Carcinogens** 

Not listed.

Reproductive toxicity This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

**Aspiration hazard** Not an aspiration hazard.

Chronic effects Prolonged inhalation may be harmful.

### 12. Ecological information

The product is not classified as environmentally hazardous. However, this does not exclude the **Ecotoxicity** 

possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Components **Species Test Results** 

4-dodecan-3-ylbenzenesulfonic acid (CAS 68584-22-5)

**Aquatic** 

Acute

Crustacea EC50 Water flea (Ceriodaphnia dubia) >= 4.66 - <= 6.83 mg/l, 48 hours

L(+)-lactic Acid (CAS 79-33-4)

**Aquatic** 

Acute

Crustacea EC50 >= 180 - <= 320 mg/l, 48 hours Water flea (Daphnia magna)

Sodium hydroxide (CAS 1310-73-2)

**Aquatic** 

Acute

EC50 Water flea (Ceriodaphnia dubia) >= 34.59 - <= 47.13 mg/l, 48 hours Crustacea

Fish LC50 Western mosquitofish (Gambusia affinis) 125 mg/l, 96 hours

Persistence and degradability

Bioaccumulative potential

No data is available on the degradability of any ingredients in the mixture.

Not established. Mobility in soil Other adverse effects None known.

# 13. Disposal considerations

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of **Disposal instructions** 

contents/container in accordance with local/regional/national/international regulations.

Local disposal regulations

Dispose in accordance with all applicable regulations.

Hazardous waste code D002: Waste Corrosive material [pH <=2 or =>12.5, or corrosive to steel]

The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Since emptied containers may retain product residue, follow label warnings even after container is Contaminated packaging

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

Material name: Gly-Vak® SDS US 5/8

## 14. Transport information

DOT

**UN** number UN1760

UN proper shipping name Corrosive liquids, n.o.s. (L(+)-lactic Acid)

Transport hazard class(es)

Class 8 Subsidiary risk Label(s) 8 Packing group Ш

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Special provisions IB3, T7, TP1, TP28

**Packaging exceptions** 154 203 Packaging non bulk Packaging bulk 241

IATA

**UN** number UN1760

**UN** proper shipping name Corrosive liquid, n.o.s. (L(+)-lactic Acid)

Transport hazard class(es)

Class 8 Subsidiary risk \_ Ш Packing group **Environmental hazards** No. **ERG Code** 8L

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Other information

Passenger and cargo

Allowed with restrictions.

aircraft

Allowed with restrictions. Cargo aircraft only

**IMDG** 

**UN** number UN1760

**UN** proper shipping name CORROSIVE LIQUID, N.O.S. (L(+)-lactic Acid)

Transport hazard class(es)

Class 8 Subsidiary risk Ш Packing group **Environmental hazards** 

Marine pollutant No.

F-A, S-B **EmS** 

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Transport in bulk according to This product is not intended to be transported in bulk. Annex II of MARPOL 73/78 and

the IBC Code

DOT



Material name: Gly-Vak® SDS US



# 15. Regulatory information

**US federal regulations** 

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

**Toxic Substances Control Act (TSCA)** 

All components of the mixture on the TSCA 8(b) inventory are designated

"active".

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

**CERCLA Hazardous Substance List (40 CFR 302.4)** 

Sodium hydroxide (CAS 1310-73-2)

Listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

Yes

chemical

Classified hazard categories

Corrosive to metal Skin corrosion or irritation

Skin corrosion or imitation

Serious eye damage or eye irritation

SARA 313 (TRI reporting)

Not regulated.

# Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

**US** state regulations

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd.

(2))

Sodium hydroxide (CAS 1310-73-2)

US. New Jersey Worker and Community Right-to-Know Act

Sodium hydroxide (CAS 1310-73-2)

#### **California Proposition 65**

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For more information go to www.P65Warnings.ca.gov.

# **International Inventories**

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Industrial Chemicals (AICIS)	Yes
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	Yes
China	Inventory of Existing Chemical Substances in China (IECSC)	No

Material name: Gly-Vak® SDS US

Country(s) or region Inventory name On inventory (yes/no)\* European Inventory of Existing Commercial Chemical Europe Nο

Substances (EINECS)

Europe European List of Notified Chemical Substances (ELINCS) No Japan Inventory of Existing and New Chemical Substances (ENCS) No Korea Existing Chemicals List (ECL) No New Zealand New Zealand Inventory No **Philippines** No

Philippine Inventory of Chemicals and Chemical Substances

(PICCS)

Taiwan Chemical Substance Inventory (TCSI) Taiwan Yes Yes United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

# 16. Other information, including date of preparation or last revision

03-02-2021 Issue date Revision date 12-15-2022

Version # 02

ECHA registered substances database References

Disclaimer The information provided in this Safety Data Sheet is correct to the best of our knowledge,

> information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. Celeste Industries cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or

expense due to improper use.

This document has undergone significant changes and should be reviewed in its entirety. **Revision information** 

Material name: Gly-Vak® SDS US

<sup>\*</sup>A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).