

# Safety Data Sheet (SDS) OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 08/26/2015

Reviewed on 08/26/2015

aph (d) of
40-60%
Ι

· Dangerous Components:			
CAS: 56-81-5 RTECS: MA 8050000	Glycerol	15-35%	
CAS: 9004-32-4	Carboxymethyl cellulose sodium ♦ Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H335	2-12%	

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Trade name: ASI KCI Saturated with AgCI Reference Filling Gel

#### 4 First-aid measures

- · Description of first aid measures:
- · General information: No special measures required.
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- *After skin contact:* Generally the product does not irritate the skin. Rinse with warm water.

If skin irritation occurs, consult a doctor.

- · After eye contact:
- Rinse opened eye for several minutes under running water.
- If eye irritation occurs, consult a doctor.
- *After swallowing:* If swallowed and symptoms occur, consult a doctor.
- · Information for doctor:
- *Most important symptoms and effects, both acute and delayed:* No further relevant information available. • *Indication of any immediate medical attention and special treatment needed:*
- No further relevant information available.

#### 5 Fire-fighting measures

- Extinguishing media:
- Suitable extinguishing agents:

CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- Special hazards arising from the substance or mixture: No further relevant information available.
- Advice for firefighters:
- Protective equipment:

As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent) and full protective gear to prevent contact with skin and eyes.

6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures: Not required.
- Environmental precautions:
- Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

- Methods and material for containment and cleaning up:
- Absorb with liquid-binding material (i.e. sand, diatomite, acid binders, universal binders, sawdust). Dispose of the collected material according to regulations.
- Reference to other sections:

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

#### 7 Handling and storage

- · Handling
- · Precautions for safe handling: No special measures required.
- Information about protection against explosions and fires: No special measures required.
- · Conditions for safe storage, including any incompatibilities:
- · Storage
- *Requirements to be met by storerooms and receptacles:* Store in the original container.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: None.





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· Specific end use(s): No further relevant information available.

8 Exposure controls/personal protection

- · Additional information about design of technical systems: No further data; see section 7.
- · Control parameters:

All ventilation should be designed in accordance with OSHA standard (29 CFR 1910.94). Use mechanical (general) ventilation for storage areas. Use appropriate ventilation as required to keep Exposure Limits in Air below TLV & PEL limits.

· Components with occupational exposure limits:

#### 56-81-5 Glycerol

- PEL Long-term value: 15\* 5\*\* mg/m<sup>3</sup>
  - mist; \*total dust \*\*respirable fraction

TLV TLV withdrawn-insufficient data human occup. exp.

• Additional information: The lists that were valid during the creation of this SDS were used as basis.

- Exposure controls:
- Personal protective equipment:
- General protective and hygienic measures:
- The usual precautionary measures for handling chemicals should be followed.
- · Breathing equipment: Not required.
- · Protection of hands: Not required.
- Material of gloves: Not required.
- · Penetration time of glove material: Not applicable.
- Eye protection:



Goggles recommended during refilling.

#### 9 Physical and chemical properties

- · Information on basic physical and chemical properties
- · General Information

· Appearance:	
Form:	Gel
Color:	Clear, colorless
· Odor:	Odorless
· Odor threshold:	Not determined.
· pH-value @ 20 °C (68 °F):	5.0-7.0
• Change in condition	
Melting point/Melting range:	Not determined.
Boiling point/Boiling range:	100 °C (212 °F)
· Flash point:	None
· Flammability (solid, gaseous):	Not applicable.
· Ignition temperature:	370 °C (698 °F)
· Decomposition temperature:	Not determined.
· Auto igniting:	Product is not self-igniting.



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· Danger of explosion:	Product does not present an explosion hazard.
• Explosion limits: Lower: Upper:	0.0 Vol % 0.0 Vol %
· Vapor pressure @ 20 °C (68 °F):	23 hPa (17 mm Hg)
<ul> <li>Density @ 20 °C (68 °F):</li> <li>Relative density:</li> <li>Vapor density:</li> <li>Evaporation rate:</li> </ul>	1.254 g/cm³ (10.465 lbs/gal) Not determined. Not determined. Not determined.
<ul> <li>Solubility in / Miscibility with: Water:</li> </ul>	Fully miscible.
· Partition coefficient (n-octanol/wate	r): Not determined.
· Viscosity: Dynamic: Kinematic:	Not determined. Not determined.
<ul> <li>Solvent content:</li> <li>Organic solvents:</li> <li>Water:</li> </ul>	16.9 % 40-60 %
Solids content: • Other information:	40-60 % No further relevant information available.
Water: Solids content:	40-60 %

#### 0 Stability and reactivity

· *Reactivity:* No further relevant information available.

- · Chemical stability: Stable under normal conditions.
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions: No dangerous reactions known.
- · Conditions to avoid: No further relevant information available.
- · Incompatible materials: Strong acids, strong bases, strong oxidizing agents and strong reducing agents.
- Hazardous decomposition products:

Potassium Oxides, Carbon Oxides, Sodium Oxides, Silver Oxides, and Hydrochloric acid gas.

#### 1 Toxicological information

#### · Information on toxicological effects:

• Acute toxicity:

· LD/LC50 values that are relevant for classification:			
56-81-5 G	lycerol		
Oral	LD50	12600 mg/kg (rat)	
Dermal	LD50	>10000 mg/kg (rabbit)	
Inhalative	LC50/96 hours	>50.000 mg/l (Trout)	
9004-32-4	9004-32-4 Carboxymethyl cellulose sodium		
Oral	LD50	27000 mg/kg (rat)	
Dermal	LD50	2000 mg/kg (rabbit)	
Primary irritant effect:			

· On the skin: No irritating effect.

· On the eye: No irritating effect.



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#### • Additional toxicological information:

The product is not subject to classification according to internally approved calculation methods for preparations:

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

#### · Carcinogenic categories:

- IARC (International Agency for Research on Cancer):
- Group 1 Carcinogenic to humans
- Group 2A Probably carcinogenic to humans
- Group 2B Possibly carcinogenic to humans
- Group 3 Not classifiable as to its carcinogenicity to humans
- Group 4 Probably not carcinogenic to humans

None of the ingredients are listed.

#### · NTP (National Toxicology Program):

None of the ingredients are listed.

#### • OSHA-Ca (Occupational Safety & Health Administration):

None of the ingredients are listed.

#### 12 Ecological information

- Toxicity:
- · Aquatic toxicity:
- 9004-32-4 Carboxymethyl cellulose sodium
- EC50 87.26 mg/l (daphnia)
- Persistence and degradability: No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential: No further relevant information available.
- *Mobility in soil:* No further relevant information available.
- Additional ecological information:
- · General notes:

Do not allow undiluted product or product that has not been neutralized to reach ground water, water course or sewage system.

- Results of PBT and vPvB assessment:
- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- Other adverse effects: No further relevant information available.

#### 13 Disposal considerations

- · Waste treatment methods:
- Recommendation:

Observe all federal, state and local environmental regulations when disposing of this material. Small quantities can be disposed of with household waste.

- · Uncleaned packagings:
- · *Recommendation:* Dispose of as unused product.
- *Recommended cleansing agent:* Water, if necessary with cleansing agents.



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14 Transport information	
· UN-Number: · DOT, ADN, IMDG, IATA · ADR	Non-Regulated Material Non-Regulated Material Not Regulated
<ul> <li>UN proper shipping name:</li> <li>DOT, ADR, ADN, IMDG, IATA</li> <li>Transport hazard class(es):</li> </ul>	Non-Regulated Material
· DOT, ADR, ADN, IMDG, IATA · Class: · Packing group:	Non-Regulated Material
DOT, ADR, IMDG, IATA Environmental hazards: Special precautions for user:	Non-Regulated Material Not applicable. Not applicable.
<ul> <li>Transport in bulk according to Annex I MARPOL73/78 and the IBC Code:</li> <li>UN "Model Regulation":</li> </ul>	Not applicable. Non-Regulated Material
15 Regulatory information	
<ul> <li>Safety, health and environmental reguing</li> <li>SARA (Superfund Amendments and Reguing)</li> </ul>	lations/legislation specific for the substance or mixture: eauthorization):
<ul> <li>Section 355 (extremely hazardous sub</li> </ul>	stances):
None of the ingredients are listed.	
• Section 313 (Specific toxic chemical lis	stings):
None of the ingredients are listed.	
• TSCA (Toxic Substances Control Act):	
All ingredients are listed.	
California Proposition 65:	
• Chemicals known to cause cancer:	
None of the ingredients are listed.	
· Chemicals known to cause reproduction	ve toxicity for females:
None of the ingredients are listed.	
· Chemicals known to cause reproduction	ve toxicity for males:
None of the ingredients are listed.	
· Chemicals known to cause developme	ntal toxicity:
None of the ingredients are listed.	
· Carcinogenic categories:	
EPA (Environmental Protection Agenc	y):
None of the ingredients are listed.	
• TLV (Threshold Limit Value establishe	d by ACGIH):
None of the ingredients are listed.	
• NIOSH-Ca (National Institute for Occup	pational Safety and Health):
None of the ingredients are listed.	
· GHS label elements Non-Regulated Mat	erial





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- · Hazard pictograms: Non-Regulated Material
- · Signal word: Non-Regulated Material
- · Hazard statements: Non-Regulated Material
- · National regulations:

The product is subject to be classified according with the latest version of the regulations on hazardous substances.

<ul> <li>State Right to Know:</li> </ul>		
CAS: 7732-18-5	Water, distilled water, deionized water	40-60%
CAS: 7447-40-7	Potassium Chloride	15-35%
CAS: 56-81-5 RTECS: MA 8050000	Glycerol	15-35%
CAS: 9004-32-4	Carboxymethyl cellulose sodium ♦ Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H335	2-12%
CAS: 7783-90-6	Silver Chloride Skin Corr. 1C, H314	≤ 2.5%
CAS: 9002-93-1	Triton X-100 Acute Tox. 3, H331; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Tox. 4, H302; Eye Irrit. 2A, H319	≤ 2.5%
All ingredients are liste		

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

#### 6 Other information

The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create warranty, expressed or implied, and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this information and the suitability of the material or product for any particular purpose.

#### Date of preparation / last revision: 08/26/2015 / -

#### Abbreviations and acronyms:

ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association ACGIH: American Conference of Governmental Industrial Hygienists EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2 Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3 \* Data compared to the previous version altered. SDS created by MSDS Authoring Services www.msdsauthoring.com +1-877-204-9106