11/10/2017	Kit Components	
Product code	Description	
1001400	GENECLEAN® II Kit	
Components:		
1001401	NaI	
1001402	New Wash	
1001403	TBE Modifier	
1001404	Glassmilk	



Reviewed on 11/10/2017

# **1** Identification

- · Product identifier
- · Trade name: <u>Nal</u>
- · Article number: 1001401
- Application of the substance / the mixture For Research Use Only
- · Details of the supplier of the safety data sheet
- Manufacturer/Supplier: MP Biomedicals, LLC 29525 Fountain Parkway Solon, OH 44139 United States www.mpbio.com
- · Information department: Quality Control Department
- Emergency telephone number: CHEMTREC: 1-800-424-9300 (1-703-527-3887)

### 2 Hazard(s) identification

· Classification of the substance or mixture

GHS07

Skin Irrit. 2 H315 Causes skin irritation.

- Eye Irrit. 2A H319 Causes serious eye irritation.
- STOT SE 3 H335 May cause respiratory irritation.

· Label elements

• *GHS label elements* The product is classified and labeled according to the Globally Harmonized System (GHS). • *Hazard pictograms* 



· Signal word Warning

· Hazard-determining components of labeling: sodium iodide · Hazard statements Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation. · Precautionary statements Avoid breathing dust/fume/gas/mist/vapors/spray Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves / eye protection / face protection. If on skin: Wash with plenty of water. IF INHALED: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a poison center/doctor if you feel unwell. Specific treatment (see on this label).

(Contd. on page 2)

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### Trade name: NaI

	(Contd. of page 1)
If skin irritation occurs: Get medical advice/attention.	
If eye irritation persists: Get medical advice/attention.	
Take off contaminated clothing and wash it before reuse.	
Store in a well-ventilated place. Keep container tightly closed.	
Store locked up.	
Dispose of contents/container in accordance with local/regional/national/international regulations.	
· Classification system:	
· NFPA ratings (scale 0 - 4)	
Health = 2	
Fire = $0$	
2 $0$ Reactivity = 0	
· HMIS-ratings (scale 0 - 4)	
HEALTH *2 $Health = *2$	
FIRE 0 Fire = 0	
<b>REACTIVITY</b> $O$ Reactivity = 0	
· Other hazards	
· Results of PBT and vPvB assessment	
• <b>PBT:</b> Not applicable.	
· <b>vPvB:</b> Not applicable.	
**	
3 Composition/information on ingredients	
. Chemical characterization Mixtures	

· Chemical characterization: Mixtures

· Description:

*Mixture of substances listed below with nonhazardous additions. Mixture: consisting of the following components.* 

· Dangerous components:

CAS: 7681-82-5 sodium iodide EINECS: 231-679-3 RTECS: WB6475000

# **4** First-aid measures

- · Description of first aid measures
- After inhalation: If breathed in, supply fresh air. If not breathing, give artificial respiration. Consult a Doctor.
- After skin contact: Wash off with soap and plenty of water. Consult a Doctor.
- · After eye contact:
- Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- After swallowing: If symptoms persist consult 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: Use fire fighting measures that suit the environment.

(Contd. on page 3)

50-90%

US

(Contd. of page 2)

## Safety Data Sheet acc. to OSHA HCS

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Trade name: NaI

• Special hazards arising from the substance or mixture No further relevant information available.

· Advice for firefighters

· Protective equipment: No special measures required.

### **6** Accidental release measures

• Personal precautions, protective equipment and emergency procedures Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

 $\cdot \textit{Environmental precautions: } Do not allow to enter sewers/ surface or ground water.$ 

• Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Ensure adequate ventilation.

· Reference to other sections

No dangerous substances are released.

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

### · Protective Action Criteria for Chemicals

· PAC-1:		
7681-82-5	sodium iodide	13 mg/m <sup>3</sup>
7757-83-7	sodium sulphite	11 mg/m <sup>3</sup>
1185-53-1	Tris Hydrochloride	12 mg/m <sup>3</sup>
77-86-1	TRIS	18 mg/m <sup>3</sup>
· PAC-2:		
7681-82-5	sodium iodide	140 mg/m <sup>3</sup>
7757-83-7	sodium sulphite	120 mg/m <sup>3</sup>
1185-53-1	Tris Hydrochloride	130 mg/m <sup>3</sup>
77-86-1	TRIS	190 mg/m <sup>3</sup>
· PAC-3:		
7681-82-5	sodium iodide	860 mg/m <sup>3</sup>
7757-83-7	sodium sulphite	710 mg/m <sup>3</sup>
1185-53-1	Tris Hydrochloride	790 mg/m <sup>3</sup>
77-86-1	TRIS	1,200 mg/m <sup>3</sup>

# 7 Handling and storage

· Handling:

· Precautions for safe handling

Avoid direct contect with skin. Use protective clothing including gloves, lab coat, face/eye protection. • Information about protection against explosions and fires: No special requirements.

· Conditions for safe storage, including any incompatibilities

· Storage: 15-30°C

· Requirements to be met by storerooms and receptacles: No special requirements.

• Further information about storage conditions: Keep container tightly sealed.

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Trade name: NaI

• 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

· Components with limit values that require monitoring at the workplace:

7681-82-5 sodium iodide

TLV Long-term value: 0.01\* ppm

\*as inhalable fraction and vapor

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

- · Exposure controls
- · Personal protective equipment:
- General protective and hygienic measures:
- Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing.
- Wash hands before breaks and at the end of work.
- Avoid contact with the eyes and skin.
- · Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air. • Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation  $\cdot$  **Material of gloves** 

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

• Eye protection:



Tightly sealed goggles

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(Contd. of page 3)

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Trade name: NaI

(Contd. of page 4)

Physical and chemical prope	rties
Information on basic physical and	chemical properties
General Information	
Appearance:	
Form:	Liquid
Color:	According to product specification
Odor:	Indeterminate
Odor threshold:	Not determined.
pH-value:	Not determined.
Change in condition	
<b>Boiling point/Boiling range:</b>	Undetermined.
Flash point:	Not applicable.
Flammability (solid, gaseous):	Not applicable.
Decomposition temperature:	Not determined.
Auto igniting:	Product is not selfigniting.
Danger of explosion:	See section 10
Explosion limits:	
Lower:	Not Applicable
Upper:	Not Applicable
Vapor pressure:	Not Applicable
Density:	Not Applicable
Relative density	Not determined.
Vapor density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with	Not Determined
Water:	Not determined.
Partition coefficient (n-octanol/wa	ter): Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
Solvent content:	
Water:	45.6 %
VOC content:	0.00~%
	0.0 g/l / 0.00 lb/gl
Solids content:	54.4 %
Other information	No further relevant information available.

# **10 Stability and reactivity**

• *Reactivity* No further relevant information available.

· Chemical stability

• 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.

(Contd. on page 6)

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(Contd. of page 5)

## Safety Data Sheet acc. to OSHA HCS

Printing date 11/10/2017

Reviewed on 11/10/2017

Trade name: NaI

· Incompatible materials: No further relevant information available.

· Hazardous decomposition products: No dangerous decomposition products known.

### **11** Toxicological information

· Information on toxicological effects

• Acute toxicity:

· LD/LC50 values that are relevant for classification:

ATE (Acute Toxicity Estimate)

*Oral LD50 8,156 mg/kg (rat)* 

7681-82-5 sodium iodide

*Oral LD50 4,340 mg/kg (rat)* 

· Primary irritant effect:

• on the skin: Irritant to skin and mucous membranes.

• on the eye: Irritating effect.

• Sensitization: No sensitizing effects known.

· Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations: Irritant

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

· NTP (National Toxicology Program)

None of the ingredients is listed.

### · OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

# **12** Ecological information

· Toxicity

- · Aquatic toxicity: No further relevant information available.
- · 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:

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it 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.

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### Trade name: NaI

(Contd. of page 6)

# **13 Disposal considerations**

### · Waste treatment methods

## · Recommendation:

Can not be disposed together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packagings:
- Recommendation: Discard must be made according to official regulations.

· UN-Number · DOT, ADR, IMDG, IATA	UN3082
· UN proper shipping name	
·DOT	Environmentally hazardous substances, liquid, n.o.s. (sodium iodide
· ADR	3082 Environmentally hazardous substances, liquid, n.o.s. (sodium
·IMDG	iodide) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUIE
mbo	N.O.S. (sodium iodide), MARINE POLLUTANT
· IATA	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUIL
	N.O.S. (sodium iodide)
Transport hazard class(es)	
DOT, ADR, IMDG, IATA	
Class Label	9 Miscellaneous dangerous substances and articles 9
· Packing group · DOT, ADR, IMDG, IATA	III
Environmental hazards:	Product contains environmentally hazardous substances: sodium
	iodide
Marine pollutant:	No Yes (DOT)
	Symbol (fish and tree)
Special marking (ADR):	Symbol (fish and tree)
Special marking (IATA):	Symbol (fish and tree)
Special precautions for user	Warning: Miscellaneous dangerous substances and articles
Danger code (Kemler):	90
· EMS Number:	F-A,S-F
а, <u>а</u> ,	A
• Stowage Category • Transport in bulk according to Annex .	

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Trade name: NaI

	(Contd. of page
· Transport/Additional information:	
·DOT	
· Quantity limitations	On passenger aircraft/rail: No limit
	On cargo aircraft only: No limit
· Remarks:	Special marking with the symbol (fish and tree).
· ADR	
$\cdot$ Excepted quantities (EQ)	Code: El
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
· IMDG	
· Limited quantities (LQ)	5L
$\cdot$ Excepted quantities (EQ)	Code: El
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
· UN "Model Regulation":	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCES
C C	LIQUID, N.O.S. (SODIUM IODIDE), 9, III

# **15 Regulatory information**

 $\cdot$  Safety, health and environmental regulations/legislation specific for the substance or mixture  $\cdot$  Sara

· Section 355 (extremely hazardous substances):

None of the ingredients is listed.

· Section 313 (Specific toxic chemical listings):

None of the ingredients is listed.

• TSCA (Toxic Substances Control Act):

All ingredients are listed.

· Proposition 65

· Chemicals known to cause cancer:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

 $\cdot$  Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

· Carcinogenic categories

· EPA (Environmental Protection Agency)

None of the ingredients is listed.

· TLV (Threshold Limit Value established by ACGIH)

None of the ingredients is listed.

· NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

• GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS). (Contd. on page 9)

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#### Trade name: NaI

(Contd. of page 8) · Hazard pictograms GHS07 · Signal word Warning · Hazard-determining components of labeling: sodium iodide · Hazard statements Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation. · Precautionary statements Avoid breathing dust/fume/gas/mist/vapors/spray Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves / eye protection / face protection. If on skin: Wash with plenty of water. IF INHALED: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a poison center/doctor if you feel unwell. Specific treatment (see on this label). If skin irritation occurs: Get medical advice/attention. If eve irritation persists: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. Store in a well-ventilated place. Keep container tightly closed. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations. · Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

### **16 Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Department issuing SDS: Quality Control Dept.

· Date of preparation / last revision 11/10/2017 / -

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) 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)
- *VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent*
- LD50: Lethal concentration, 50 [ LD50: Lethal dose, 50 percent
- *PBT: Persistent, Bioaccumulative and Toxic*
- vPvB: very Persistent and very Bioaccumulative

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<sup>·</sup> Abbreviations and acronyms:

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### Trade name: NaI

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NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit Skin Irrit. 2: Skin corrosion/irritation – Category 2 Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A STOT SE 3: Specific target organ toxicity (single exposure) – Category 3



Reviewed on 11/10/2017

# **1 Identification**

- · Product identifier
- · Trade name: <u>New Wash</u>
- Article number: 1001402
- · Application of the substance / the mixture For Research Use Only
- · Details of the supplier of the safety data sheet
- Manufacturer/Supplier: MP Biomedicals, LLC 29525 Fountain Parkway Solon, OH 44139 United States www.mpbio.com

· Information department: Quality Control Department

• Emergency telephone number: CHEMTREC: 1-800-424-9300 (1-703-527-3887)

## 2 Hazard(s) identification

· Classification of the substance or mixture

The product is not classified according to the Globally Harmonized System (GHS).

- · Label elements
- · GHS label elements Void
- · Hazard pictograms Void
- · Signal word Void
- · Hazard statements Void
- · Classification system:
- · NFPA ratings (scale 0 4)



Health = 0Fire = 0 Reactivity = 0

· HMIS-ratings (scale 0 - 4)

HEALTH $\bigcirc$ Health = 0FIRE $\bigcirc$ Fire = 0REACTIVITY $\bigcirc$ Reactivity = 0

- · Other hazards
- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.

### 3 Composition/information on ingredients

- · Chemical characterization: Mixtures
- · Description:

*Mixture of substances listed below with nonhazardous additions. Mixture: consisting of the following components.* 

· Dangerous components: Void

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#### Trade name: New Wash

(Contd. of page 1)

### 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.
- After eye contact: Flush eyes with running water as a precaution.
- After swallowing: If symptoms persist consult 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: Use fire fighting measures that suit the environment.
- · Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: No special measures required.

### **6** Accidental release measures

- Personal precautions, protective equipment and emergency procedures
- Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.
- Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- Methods and material for containment and cleaning up:
- Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- · Reference to other sections
- No dangerous substances are released.
- See Section 7 for information on safe handling.
- See Section 8 for information on personal protection equipment.
- See Section 13 for disposal information.

### · Protective Action Criteria for Chemicals

· PAC-1:		
1185-53-1	Tris Hydrochloride	12 mg/m <sup>3</sup>
77-86-1	TRIS	18 mg/m <sup>3</sup>
6381-92-6	Ethylenediamine Tetraacetic Acid Disodium Salt Dihydrate	30 mg/m <sup>3</sup>
· PAC-2:		
1185-53-1	Tris Hydrochloride	130 mg/m <sup>3</sup>
77-86-1	TRIS	190 mg/m <sup>3</sup>
6381-92-6	Ethylenediamine Tetraacetic Acid Disodium Salt Dihydrate	330 mg/m <sup>3</sup>
· PAC-3:		
1185-53-1	Tris Hydrochloride	790 mg/m <sup>3</sup>
77-86-1	TRIS	1,200 mg/m <sup>3</sup>
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Trade name: New Wash

6381-92-6 Ethylenediamine Tetraacetic Acid Disodium Salt Dihydrate

(Contd. of page 2)  $2,000 mg/m^3$ 

### 7 Handling and storage

- · Handling:
- · Precautions for safe handling No special measures required.
- · Information about protection against explosions and fires: No special requirements.
- · Conditions for safe storage, including any incompatibilities
- Storage: 15-30°C
- · Requirements to be met by storerooms and receptacles: No special requirements.
- Further information about storage conditions:
- 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
- · Components with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- Additional information: The lists that were valid during the creation 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:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

• Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. • Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

• Eye protection: Goggles recommended during refilling.

# 9 Physical and chemical properties

- · Information on basic physical and chemical properties
- General Information
- · Appearance:
- Form: Color:
- · Odor:

Liquid According to product specification Indeterminate

(Contd. on page 4)

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Reviewed on 11/10/2017

Trade name: New Wash	h
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		(Contd. of page 3
· Odor threshold:	Not determined.	
· pH-value:	Not determined.	
· Change in condition Boiling point/Boiling range:	Undetermined.	
· Flash point:	Not applicable.	
· Flammability (solid, gaseous):	Not applicable.	
• Decomposition temperature:	Not determined.	
· Auto igniting:	Product is not selfigniting.	
· Danger of explosion:	See section 10	
· Explosion limits: Lower: Upper:	Not Applicable Not Applicable	
· Vapor pressure:	Not Applicable	
· Density: · Relative density · Vapor density · Evaporation rate	Not Applicable Not determined. Not determined. Not determined.	
• Solubility in / Miscibility with • Water:	Not Determined Not determined.	
· Partition coefficient (n-octanol/wa	ter): Not determined.	
· Viscosity: Dynamic: Kinematic:	Not determined. Not determined.	
· Solvent content: Water: VOC content:	73.9 % 0.00 % 0.0 g/l / 0.00 lb/gl	
Solids content: • Other information	26.1 % No further relevant information available.	

# **10 Stability and reactivity**

• *Reactivity* No further relevant information available.

- · Chemical stability
- 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: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

(Contd. on page 5)

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(Contd. of page 4)

Trade name: New Wash

**11 Toxicological information** 

- · Information on toxicological effects
- Acute toxicity: Based on available data, the classification criteria are not met.
- · LD/LC50 values that are relevant for classification:

ATE (Acute Toxicity Estimate)

Oral LD50 8,065 mg/kg

Dermal LD50 373,190 mg/kg (rat)

- · Primary irritant effect:
- on the skin: No irritant effect.
- on the eye: Irritant and potentially harmful
- Sensitization: No sensitizing effects known.
- · 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)

None of the ingredients is listed.

· NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

# **12 Ecological information**

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · 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:

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it 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:

Can not be disposed of together with household garbage. Do not allow product to reach sewage system.

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Printing date 11/10/2017

Reviewed on 11/10/2017

(Contd. of page 5)

Trade name: New Wash

· Uncleaned packagings:

· Recommendation: Discard must be made according to official regulations.

Transport information	
UN-Number DOT, ADR, ADN, IMDG, IATA	Not regulated
UN proper shipping name DOT, ADR, ADN, IMDG, IATA	Not regulated
Transport hazard class(es)	
DOT, ADR, ADN, IMDG, IATA Class	Not regulated
Packing group DOT, ADR, IMDG, IATA	Not regulated
Environmental hazards: Marine pollutant:	No
Special precautions for user	Not applicable.
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
UN "Model Regulation":	Not regulated

# **15 Regulatory information**

 $\cdot$  Safety, health and environmental regulations/legislation specific for the substance or mixture  $\cdot$  Sara

• Section 355 (extremely hazardous substances):

None of the ingredients is listed.

· Section 313 (Specific toxic chemical listings):

None of the ingredients is listed.

· TSCA (Toxic Substances Control Act):

7647-14-5 Sodium Chloride

1185-53-1 Tris Hydrochloride

77-86-1 TRIS

7732-18-5 Water

· TSCA new (21st Century Act) (Substances not listed)

· Proposition 65

 $\cdot$  Chemicals known to cause cancer:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

(Contd. on page 7)

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Trade name: New Wash

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

· Carcinogenic categories

· EPA (Environmental Protection Agency)

None of the ingredients is listed.

· TLV (Threshold Limit Value established by ACGIH)

None of the ingredients is listed.

· NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

· GHS label elements Void

· Hazard pictograms Void

· Signal word Void

· Hazard statements Void

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

## **16 Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Department issuing SDS: Quality Control Dept.

· Date of preparation / last revision 11/10/2017 / -

• Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) 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) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit

US -



Reviewed on 11/10/2017

# **1 Identification**

- · Product identifier
- · Trade name: <u>TBE Modifier</u>
- Article number: 1001403
- Application of the substance / the mixture For Research Use Only
- · Details of the supplier of the safety data sheet
- Manufacturer/Supplier: MP Biomedicals, LLC 29525 Fountain Parkway Solon, OH 44139 United States www.mpbio.com
- · Information department: Quality Control Department
- Emergency telephone number: CHEMTREC: 1-800-424-9300 (1-703-527-3887)

# 2 Hazard(s) identification

· Classification of the substance or mixture



GHS05 Corrosion

Skin Corr. 1A H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.

- · Label elements
- · GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).
- · Hazard pictograms



· Signal word Danger

- Hazard-determining components of labeling: Acetic acid
- Hazard statements
- Causes severe skin burns and eye damage.
- · Precautionary statements

Do not breathe dusts or mists.

Wash thoroughly after handling.

Wear protective gloves/protective clothing/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.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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.

Specific treatment (see on this label).

Wash contaminated clothing before reuse.

Store locked up.

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

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(Contd. of page 1)

2.5-10%

#### Trade name: TBE Modifier

• Classification system: • NFPA ratings (scale 0 - 4)

 $\begin{array}{c} \textbf{Health} = 3\\ \textbf{Health} = 0\\ \textbf{Reactivity} = 0 \end{array}$ 

· HMIS-ratings (scale 0 - 4)

HEALTH3Health = 3FIRE0Fire = 0REACTIVITY0Reactivity = 0

- · Other hazards
- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.

· vPvB: Not applicable.

# 3 Composition/information on ingredients

· Chemical characterization: Mixtures

· Description:

*Mixture of substances listed below with nonhazardous additions. Mixture: consisting of the following components.* 

· Dangerous components:

CAS: 64-19-7 Acetic acid EINECS: 200-580-7

### **4** First-aid measures

· Description of first aid measures

• General information:

Consult your Doctor. Show the safety data sheet to the Doctor. Away from the dangerous area.

• After inhalation: If breathed in, supply fresh air. If not breathing, give artificial respiration. Consult a Doctor. • After skin contact: Wash off with soap and plenty of water. Consult a Doctor.

- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- *After swallowing:* Drink copious amounts of water and provide fresh air. Immediately call 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: Use fire fighting measures that suit the environment.
- · Special hazards arising from the substance or mixture No further relevant information available.
- Advice for firefighters
- · Protective equipment: No special measures required.

(Contd. on page 3)

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#### Trade name: TBE Modifier

(Contd. of page 2)

Personal precautions, protective equipment and emergency procedures	
Wear protective equipment. Keep unprotected persons away.	
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 (sand, diatomite, acid binders, universal binders, sawdust).	
Use neutralizing agent.	
Pick up mechanically, dispose contaminated material as waste according to Section 13.	
Ensure adequate ventilation.	
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.	
Protective Action Criteria for Chemicals	
PAC-1:	
631-61-8 Ammonium Acetate Anhydous	3.8 mg/m
<i>PAC-2:</i>	
631-61-8 Ammonium Acetate Anhydous	42 mg/m <sup>3</sup>
PAC-3:	
631-61-8 Ammonium Acetate Anhydous	250 mg/m <sup>3</sup>

### 7 Handling and storage

· Handling:

· Precautions for safe handling

Avoid direct contect with skin. Use protective clothing including gloves, lab coat, face/eye protection. • Information about protection against explosions and fires: No special requirements.

· Conditions for safe storage, including any incompatibilities

· Storage: 15-30°C

- · Requirements to be met by storerooms and receptacles: No special requirements.
- Further information about storage conditions: Keep container tightly sealed.
- · 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

· Components with limit values that require monitoring at the workplace:

### 64-19-7 Acetic acid

PEL Long-term value: 25 mg/m<sup>3</sup>, 10 ppm

REL Short-term value: 37 mg/m<sup>3</sup>, 15 ppm

Long-term value: 25 mg/m<sup>3</sup>, 10 ppm

TLV Short-term value: 37 mg/m<sup>3</sup>, 15 ppm

Long-term value: 25 mg/m<sup>3</sup>, 10 ppm

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# Trade name: TBE Modifier

Additional information: The lists that were valid during the creation were used as basi	(Contd. of page <i>s</i> .
Exposure controls	
Personal protective equipment:	
General protective equipment: General protective and hygienic measures:	
Keep away from foodstuffs, beverages and feed.	
Immediately remove all soiled and contaminated clothing.	
Wash hands before breaks and at the end of work.	
Avoid contact with the eyes.	
Avoid contact with the eyes and skin.	
Breathing equipment: Not required.	
Protection of hands:	
The glove material has to be impermeable and resistant to the product/ the substance/ the Due to missing tests no recommendation to the glove material can be given for the product.	
chemical mixture.	
Selection of the glove material on consideration of the penetration times, rates of diffus	ion and the degradation
Material of gloves	
The selection of the suitable gloves does not only depend on the material, but also on favories from manufacturer to manufacturer. As the product is a preparation of several such as the glove material can not be calculated in advance and has therefore to be checked product of the several several several several can be calculated in advance and has therefore to be checked product of the several s	ubstances, the resistance
Penetration time of glove material	
The exact break through time has to be found out by the manufacturer of the prote	ctive gloves and has to b
observed.	

Information on basic physical and General Information	chemical properties	
Appearance:		
Form:	Liquid	
Color:	According to product specification	
Odor:	Indeterminate	
Odor threshold:	Not determined.	
pH-value:	Not determined.	
Change in condition		
<b>Boiling point/Boiling range:</b>	Undetermined.	
Flash point:	Not applicable.	
Flammability (solid, gaseous):	Not applicable.	
Ignition temperature:	unknown °C	

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Trade name: TBE Modifier

		(Contd. of page 4
· Decomposition temperature:	Not determined.	
· Auto igniting:	Product is not selfigniting.	
· Danger of explosion:	See section 10	
· Explosion limits:		
Lower:	4 Vol %	
Upper:	19.9 Vol %	
· Vapor pressure:	Not Applicable	
· Density:	Not Applicable	
· Relative density	Not determined.	
· Vapor density	Not determined.	
· Evaporation rate	Not determined.	
· Solubility in / Miscibility with	Not Determined	
· Water:	Soluble.	
· Partition coefficient (n-octanol/wa	t <b>ter):</b> Not determined.	
· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
· Solvent content:		
Water:	51.5 %	
VOC content:	0.00 %	
	0.0 g/l / 0.00 lb/gl	
• Other information	No further relevant information available.	

# **10 Stability and reactivity**

· Reactivity No further relevant information available.

· Chemical stability

- 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: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

# **11** Toxicological information

· Information on toxicological effects

- · Acute toxicity:
- Primary irritant effect:
- on the skin: Strong caustic effect on skin and mucous membranes.
- $\cdot$  on the eye:

Strong caustic effect.

Strong irritant with the danger of severe eye injury.

- Sensitization: No sensitizing effects known.
- · Additional toxicological information:
- The product shows the following dangers according to internally approved calculation methods for preparations: Corrosive

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(Contd. of page 5)

#### Trade name: TBE Modifier

#### Irritant

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

#### · Carcinogenic categories

· IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

 $\cdot$  NTP (National Toxicology Program)

None of the ingredients is listed.

### · OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

## **12 Ecological information**

- · Toxicity
- Aquatic toxicity: No further relevant information available.
- · 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:
- Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system. Must not reach bodies of water or drainage ditch undiluted or unneutralized.

- · 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:

Can not be disposed together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packagings:
- *Recommendation:* Discard must be made according to official regulations.
- · Recommended cleansing agent: Water, if necessary with cleaning agents.

UN-Number		
DOT, ADR, IMDG, IATA	UN1760	
UN proper shipping name		
DOT	Corrosive liquids, n.o.s.	
ADR	1760 Corrosive liquids, n.o.s.	
IMDG, IATA	CORROSIVE LIQUID, N.O.S.	

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Trade name: TBE Modifier

ve substances ve substances Corrosive substances
ve substances Corrosive substances
ve substances Corrosive substances
ve substances Corrosive substances
Corrosive substances
Corrosive substances
Corrosive substances
cable.
cable.
cable.
nger aircraft/rail: 5 L
aircraft only: 60 L
n net quantity per inner packaging: 30 ml
n net quantity per outer packaging: 1000 ml
net quantity per inner packaging: 30 ml
net quantity per outer packaging: 30 ml
CORROSIVE LIQUIDS, N.O.S., 8, III
! m n !

(Contd. on page 8)

Printing date 11/10/2017

Reviewed on 11/10/2017

Trade name: TBE Modifier

(Contd. of page 7)

## **15 Regulatory information**

 $\cdot$  Safety, health and environmental regulations/legislation specific for the substance or mixture  $\cdot$  Sara

· Section 355 (extremely hazardous substances):

None of the ingredients is listed.

· Section 313 (Specific toxic chemical listings):

None of the ingredients is listed.

• TSCA (Toxic Substances Control Act):

All ingredients are listed.

· TSCA new (21st Century Act) (Substances not listed)

· Proposition 65

· Chemicals known to cause cancer:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

· Carcinogenic categories

· EPA (Environmental Protection Agency)

631-61-8 Ammonium Acetate Anhydous

· TLV (Threshold Limit Value established by ACGIH)

None of the ingredients is listed.

· NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

• *GHS label elements* The product is classified and labeled according to the Globally Harmonized System (GHS). • *Hazard pictograms* 



· Signal word Danger

Hazard-determining components of labeling: Acetic acid
Hazard statements Causes severe skin burns and eye damage.
Precautionary statements Do not breathe dusts or mists.
Wash thoroughly after handling.
Wear protective gloves/protective clothing/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.

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Printing date 11/10/2017

Reviewed on 11/10/2017

#### Trade name: TBE Modifier

(Contd. of page 8)

IF INHALED: Remove person to fresh air and keep comfortable for breathing. 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.

Specific treatment (see on this label).

Wash contaminated clothing before reuse.

Store locked up.

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

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

### **16 Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Department issuing SDS: Quality Control Dept.

• Date of preparation / last revision 11/10/2017 / -

#### • Abbreviations and acronyms: ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) 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) VOC: Volatile Organic Compounds (USA, EU) PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit **REL:** Recommended Exposure Limit Skin Corr. 1A: Skin corrosion/irritation - Category 1A Eye Dam. 1: Serious eye damage/eye irritation - Category 1



Reviewed on 11/10/2017

# **1** Identification

- · Product identifier
- · Trade name: Glassmilk
- Article number: 1001404
- · Application of the substance / the mixture For Research Use Only
- · Details of the supplier of the safety data sheet
- Manufacturer/Supplier: MP Biomedicals, LLC 29525 Fountain Parkway Solon, OH 44139 United States www.mpbio.com
- · Information department: Quality Control Department
- Emergency telephone number: CHEMTREC: 1-800-424-9300 (1-703-527-3887)

## 2 Hazard(s) identification

### · Classification of the substance or mixture

The product is not classified according to the Globally Harmonized System (GHS).

- · Label elements
- · GHS label elements Void
- · Hazard pictograms Void
- · Signal word Void
- · Hazard statements Void
- · Classification system:
- · NFPA ratings (scale 0 4)



$$Health = 0$$
  
Fire = 0  
Reactivity = 0

· HMIS-ratings (scale 0 - 4)

HEALTH $\bigcirc$ Health = 0FIRE $\bigcirc$ Fire = 0REACTIVITY $\bigcirc$ Reactivity = 0

- · Other hazards
- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.

### 3 Composition/information on ingredients

- · Chemical characterization: Mixtures
- · Description:

*Mixture of substances listed below with nonhazardous additions. Mixture: consisting of the following components.* 

· Dangerous components: Void

(Contd. on page 2)

Printing date 11/10/2017

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#### Trade name: Glassmilk

(Contd. of page 1)

### 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.
- After eye contact: Flush eyes with running water as a precaution.
- After swallowing: If symptoms persist consult 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: Use fire fighting measures that suit the environment.
- Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: No special measures required.

### 6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures
- Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

For personal protection see section 8.

- Environmental precautions: Dilute with plenty of water.
- $\cdot$  Methods and material for containment and cleaning up:
- Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- · Reference to other sections
- No dangerous substances are released.
- See Section 7 for information on safe handling.
- See Section 8 for information on personal protection equipment.
- See Section 13 for disposal information.

### · Protective Action Criteria for Chemicals

#### · PAC-1:

7631-86-9 silicon dioxide, chemically prepared

18 mg/m³

740 mg/m<sup>3</sup>

 $4,500 \text{ mg/m}^3$ 

# • PAC-2:

7631-86-9 silicon dioxide, chemically prepared

· PAC-3:

7631-86-9 silicon dioxide, chemically prepared

# 7 Handling and storage

- · Handling:
- · Precautions for safe handling No special measures required.
- · Information about protection against explosions and fires: No special requirements.

(Contd. on page 3)

Printing date 11/10/2017

Reviewed on 11/10/2017

Trade name: Glassmilk

(Contd. of page 2)

- · Conditions for safe storage, including any incompatibilities
- *Storage:* 15-30°C
- Requirements to be met by storerooms and receptacles: No special requirements.
- · Further information about storage conditions:
- 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
- · Components with limit values that require monitoring at the workplace:
- The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- Additional information: The lists that were valid during the creation 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:
- The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
- Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
- Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation  $\cdot$  *Material of gloves*

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

• Eye protection: Goggles recommended during refilling.

Information on basic physical and General Information	chemical properties	
Appearance:	с ·	
Form:	Suspension	
Color:	According to product specification	
Odor:	Indeterminate	
Odor threshold:	Not determined.	
pH-value:	Not determined.	
Change in condition		
<b>Boiling point/Boiling range:</b>	Undetermined.	
Flash point:	Not applicable.	
Flammability (solid, gaseous):	Not applicable.	

Printing date 11/10/2017

Reviewed on 11/10/2017

Trade name: Glassmilk

	(Contd. of page
· Ignition temperature:	unknown °C
· Decomposition temperature:	Not determined.
· Auto igniting:	Product is not selfigniting.
· Danger of explosion:	See section 10
• Explosion limits:	
Lower:	Not Applicable
Upper:	Not Applicable
· Vapor pressure:	Not Applicable
· Density:	Not Applicable
· Relative density	Not determined.
· Vapor density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with	Not Determined
· Water:	Fully miscible.
· Partition coefficient (n-octanol/wa	uter): Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
· Solvent content:	
Water:	40.0~%
VOC content:	0.00 %
	0.0 g/l / 0.00 lb/gl
• Other information	No further relevant information available.

# **10 Stability and reactivity**

• *Reactivity* No further relevant information available.

- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- $\cdot$  Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

# **11 Toxicological information**

- · Information on toxicological effects
- Acute toxicity: Based on available data, the classification criteria are not met.
- · Primary irritant effect:
- on the skin: No irritant effect.
- on the eye: Irritant and potentially harmful
- Sensitization: No sensitizing effects known.
- $\cdot$  Additional toxicological information:

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

(Contd. on page 5)

US

3

## Safety Data Sheet acc. to OSHA HCS

*Printing date 11/10/2017* 

Reviewed on 11/10/2017

#### Trade name: Glassmilk

(Contd. of page 4) 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)

7631-86-9 silicon dioxide, chemically prepared

· NTP (National Toxicology Program)

None of the ingredients is listed.

### · OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

### **12 Ecological information**

#### · Toxicity

- · Aquatic toxicity: No further relevant information available.
- · 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: Generally not hazardous for water
- · 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:

Can not be disposed of together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packagings:
- *Recommendation:* Discard must be made according to official regulations.
- Recommended cleansing agent: Water, if necessary with cleaning agents.

UN-Number DOT, ADR, IMDG, IATA	Not regulated	
ADN	not applicable	
UN proper shipping name		
DOT, ADR, IMDG, IATA	Not regulated	
ADN	none	
Transport hazard class(es)	-	
DOT, ADR, ADN, IMDG, IATA		
Class	Not regulated	

Printing date 11/10/2017

Reviewed on 11/10/2017

Trade name: Glassmilk

**15 Regulatory information** 

· Sara

		(Contd. of page 5)
· Packing group · DOT, ADR, IMDG, IATA	Not regulated	
· Environmental hazards: · Marine pollutant:	No	
· Special precautions for user	Not applicable.	
• Transport in bulk according to Annex MARPOL73/78 and the IBC Code	: <b>II of</b> Not applicable.	
· UN "Model Regulation":	Not regulated	

· Section 355 (extremely hazardous substances):
None of the ingredients is listed.
· Section 313 (Specific toxic chemical listings):
None of the ingredients is listed.
· TSCA (Toxic Substances Control Act):
All ingredients are listed.
· Proposition 65
· Chemicals known to cause cancer:
None of the ingredients is listed.
$\cdot$ Chemicals known to cause reproductive toxicity for females:
None of the ingredients is listed.
· Chemicals known to cause reproductive toxicity for males:
None of the ingredients is listed.
· Chemicals known to cause developmental toxicity:
None of the ingredients is listed.
· Carcinogenic categories
· EPA (Environmental Protection Agency)
None of the ingredients is listed.
· TLV (Threshold Limit Value established by ACGIH)

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

None of the ingredients is listed.

· NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

· GHS label elements Void

· Hazard pictograms Void

• Signal word Void

• Hazard statements Void

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

(Contd. on page 7)

Printing date 11/10/2017

Reviewed on 11/10/2017

#### Trade name: Glassmilk

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US

### **16 Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Department issuing SDS: Quality Control Dept.

- · Date of preparation / last revision 11/10/2017 / -
- Abbreviations and acronyms: ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) 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) VOC: Volatile Organic Compounds (USA, EU) PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit