



Printing date 07/31/2017

Reviewed on 07/31/2017

Page 1/8

1 Identification

· Product identifier

- · Trade name: Insitu® Metal Prep
 - · Application of the substance / the mixture: Cleaning Agent

· Details of the supplier of the safety data sheet

- Manufacturer/Supplier: Manufactured for Modine Manufacturing Company 10225 Elizabeth Place Tampa, FL 33619
 P: 1-813-689-4282
- · Information department: Product safety department
- Emergency telephone number: CHEMTREC Within the USA and Canada: 1-800 424-9300 Outside the USA and International: +1-703-527-3887

2 Hazard(s) identification

· Classification of the substance or mixture



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: tetrasodium ethylenediaminetetraacetate
- Hazard statements
- Causes severe skin burns and eye damage.
- · Precautionary statements
- Do not breathe dusts or mists.

Wear protective gloves/protective clothing/eye protection/face protection.

Wash thoroughly after handling.

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

(Contd. on page 2)

Printing date 07/31/2017

Reviewed on 07/31/2017

Trade name: Insitu® Metal Prep

(Contd. of page 1) 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). IF INHALED: Remove person to fresh air and keep comfortable for breathing. Wash contaminated clothing before reuse. If swallowed: Rinse mouth. Do NOT induce vomiting. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations. • Classification system:
· NFPA ratings (scale 0 - 4)
Health = 3 Fire = 0 Reactivity = 0
· HMIS-ratings (scale 0 - 4)
HEALTH3FIRE0REACTIVITY0
 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 the substances listed below with nonhazardous additions.

 Dangerous 	components:

64-02-8	tetrasodium ethylenediaminetetraacetate	1-≤2.5%
1310-58-3	potassium hydroxide	0.5-<2%

4 First-aid measures

· Description of first aid measures

- · General information: Immediately remove any clothing soiled by the product.
- After inhalation: In case of unconsciousness place patient stably in side position for transportation.
- · After skin contact: Immediately wash with water and soap and rinse thoroughly.
- · 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.

(Contd. on page 3)

US

Printing date 07/31/2017

Reviewed on 07/31/2017

Trade name: Insitu® Metal Prep

(Contd. of page 2)

5 Fire-fighting measures

· Extinguishing media

- · Suitable extinguishing agents:
- CO2, 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: No special measures required.

6 Accidental release measures

Wear protective equipment. Keep unprotected persons away.
Environmental precautions: Prevent from spreading (e.g. by damming-in or oil barriers). Dilute with plenty of water.
Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Use neutralizing agent. Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.
Reference to other sections See Section 7 for information on safe handling.

Personal precautions, protective equipment and emergency procedures

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 Ensure good ventilation/exhaustion at the workplace.
 Prevent formation of aerosols.
- · 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: No special requirements.
 - · Information about storage in one common storage facility: Not required.
 - Further information about storage conditions: Keep receptacle 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 item 7.

Control parameters

Components with limit values that require monitoring at the workplace:

The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.

At this time, the remaining constituent has no known exposure limits.

(Contd. on page 4)

US -

(Contd. of page 3)

Safety Data Sheet acc. to OSHA HCS

Printing date 07/31/2017

Reviewed on 07/31/2017

Trade name: Insitu® Metal Prep

1310-58-3 potassium hydroxide

REL Ceiling limit value: 2 mg/m³

TLV Ceiling limit value: 2 mg/m³

· 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: Use suitable respiratory protective device in case of insufficient ventilation.
 - · 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

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

9 Physical and chemical properties

· Information on basic physical and chemical properties

 General 	Information	-
-		

 Appearance: 		
· Form:	Liquid	
· Color:	Light yellow	
Odor:	Nearly odorless	
 Odor threshold: 	Not determined.	
· pH-value at 20 ℃ (68 °F):	12.3	
 Change in condition 		
 Melting point/Melting range: 	Undetermined.	
 Boiling point/Boiling range: 	>93 °C (>199 °F)	
		(Contd. on page 5)

— US

Printing date 07/31/2017

Reviewed on 07/31/2017

Trade name: Insitu® Metal Prep

		(Contd. of page 4
Flash point:	Not applicable.	
· Flammability (solid, gaseous):	Not applicable.	
Decomposition temperature:	Not determined.	
Auto igniting:	Product is not selfigniting.	
· Danger of explosion:	Product does not present an explosion hazard.	
 Explosion limits: Lower: Upper: 	Not determined. Not determined.	
· Vapor pressure at 20 °C (68 °F):	23 hPa (17 mm Hg)	
 Density at 20 °C (68 °F): Relative density Vapor density Evaporation rate 	1.033 g/cm ³ (8.62 lbs/gal) Not determined. Not determined. Not determined.	
Solubility in / Miscibility with Water:	Fully miscible.	
Partition coefficient (n-octanol/wa	ter): Not determined.	
 Viscosity: Dynamic: Kinematic: Other information 	Not determined. Not determined. 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: Caustic effect on skin and mucous membranes.
 - on the eye: Strong caustic effect.
- · Sensitization: No sensitizing effects known.
- · Additional toxicological information:

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

Corrosive

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

(Contd. on page 6)

Printing date 07/31/2017

Reviewed on 07/31/2017

Trade name: Insitu® Metal Prep

(Contd. of page 5)

· 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:

Must not reach bodies of water or drainage ditch undiluted or unneutralized.

Rinse off of bigger amounts into drains or the aquatic environment may lead to increased pH-values. A high pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably reduced, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

· 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:

Small amounts may be diluted with plenty of water and washed away. Dispose of bigger amounts in accordance with Local Authority requirements.

· Uncleaned packagings:

- · Recommendation: Disposal must be made according to official regulations.
- · Recommended cleansing agent: Water, if necessary with cleansing agents.

14 Transport information

· UN-Number

· DOT, ADR, ADN, IMDG, IATA

· UN proper shipping name

· DOT, ADR, ADN, IMDG, IATA

· Transport hazard class(es)

· DOT, ADR, ADN, IMDG, IATA · Class

Not Regulated

Not Regulated

Not Regulated

(Contd. on page 7)

Printing date 07/31/2017

Reviewed on 07/31/2017

Trade name: Insitu® Metal Prep

	(Contd. of page 6)
 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

· Safety, health and environmental regulations/legislation specific for the substance or mixture · 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.
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 closelying to the Clobelly Hermonized System (CHS)

The product is classified and labeled according to the Globally Harmonized System (GHS).

Hazard pictograms



· Signal word Danger

(Contd. on page 8)

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16 Other information

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· Department issuing SDS: Product safety department

· Contact: SDS Coordinator

Date of preparation / last revision 07/31/2017 / -

· 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