

Safety Data Sheet

Acc. To OSHA HCS Rev. 1/19/16

Trade Name: RS MaxPatch Summer Part A

Section 1: IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Trade Name: RS MaxPatch® Summer Part A

Other Name(s): Water Glass, Silicic Acid, Sodium Salt

Recommended use of the chemical and restrictions on use:

Component in the mixture of silicate reaction resin for use in pipe repairs.

Details of the supplier:

RS Lining Systems, LLC

P.O. Box 3745

Cary, NC 27519

919-481-1977

www.rstechnik.us

Emergency Telephone Number:

CHEMTREC: 800-424-9300 24 hours

Section 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

Label Elements

Hazard pictograms



GHS07

Signal word Danger

Hazard Statements

H315 Causes skin irritation.

H319 Causes serious eye irritation.

Precautionary statements

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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Classification System:
NFPA ratings (scale 0-4)



Health = 1
Fire = 0
Reactivity = 0

HMIS ratings (0-4)



Health = 1
Fire = 0
Reactivity = 0

Other Hazards

Results of PBT and vPvB assessment

PBT: Not Applicable.

vPvB: Not Applicable.

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Characterization: Mixtures

Description: Mixture of the substances listed below with nonhazardous additions

Dangerous Components:

1344-09-8	Silicic Acid, sodium salt	50-100%
107-21-1	ethanediol	≤ 2.5%

Additional Information: For the wording of the listed risk phrases refer to section 16.

Section 4: FIRST AID MEASURES

Description of first aid measures

General information: Immediately remove any clothing soiled by the product.

After inhalation: Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. 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. If symptoms persist, consult a doctor.

After swallowing: Call doctor immediately.

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.

Section 5: FIRE FIGHTING MEASURES

Extinguishing media

Suitable extinguishing agents: CO₂, extinguishing powder or water sprays. Fight larger fires with water spray or alcohol resistant foam.

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

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Advice for firefighters

Protective equipment: No special measures required. ways wear gas mask and breathing equipment and protective overalls. Do not inhale gases or vapors.

Further information: Cool endangered containers with water. If the material overheats, danger of gaseous decomposition products being released; decomposition, danger of explosion.

Dispose of fire residues and contaminated water in accordance with local statutory regulations. Collect contaminated water used for fire fighting separately, must not be allowed to enter sewage system or ground water.

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

Advice for firefighters

Protective equipment: No special measures required.

Section 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 (sand, diatomite, acid binders, universal binders, sawdust).

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.

Section 7: HANDLING AND STORAGE

Handling:

Precautions for safe handling

When handling, make sure the working area is adequately ventilated.

When pumping, check pipes for tightness.

Aerosol formation must be avoided. Do not inhale vapors or aerosols.

If aerosols occur, always wear breathing equipment.

Information about protection against explosions and fires: Not required.

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: Store in dry conditions. Keep receptacle tightly sealed.

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

Section 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:

107-21-1 ethanediol

TLV Short-term value: C 100 mg/m³

H

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

Exposure controls

Personal protective equipment:

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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: not required.

Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/the substance/the preparation.
Selection of the glove material should be in consideration of the penetration times, rates of diffusion and the degradation.

Material of gloves

Nitrile rubber, NBR

Fluorocarbon rubber (Viton)

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 cannot 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

Body protection: Protective work clothing.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

General Information

Appearance:

Form: Fluid

Color: Yellow

Odor: characteristic

pH Value at 20 °C (68 °F): >11

Change in condition

Melting point/Melting range: undetermined

Boiling point/Boiling range: undetermined

Flash point: not applicable

Auto Ignition temperature: product is not self-igniting

Danger of explosion: Product does not present an explosion hazard.

Density at 20 °C (68 °F): 1.48 g/cm³ (12.351 lbs./gal)

Solubility in/Miscibility with Water: Fully Miscible.

Viscosity:

Dynamic at 20 °C (68 °F): 300 mPas

Other information No further relevant information available.

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NOTE: The physical data presented above are typical values and should not be construed as a specification.

Section 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.

Section 11: TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity:

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.

Section 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 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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Section 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

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

Uncleaned packagings

Recommendation: Disposal must be made according to official regulations.

Recommended cleansing agent: Water, if necessary with cleansing agents.

Section 14: TRANSPORT INFORMATION

UN-Number (DOT, ADR, ADN, IMDG, IATA): Not Applicable.

UN proper shipping name (DOT, ADR, ADN, IMDG, IATA): Not Applicable.

Transport hazard class (DOT, ADR, ADN, IMDG, IATA): Not Applicable.

Packing group (DOT, ADR, IMDG, IATA): Not Applicable.

Environmental hazards: Not applicable.

Marine pollutant: Not applicable.

Special precautions for user: Not applicable.

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable.

Transport/Additional information: Not dangerous according to the above specifications.

UN "Modal Regulation": Not Applicable

Section 15: REGULATORY INFORMATION

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

Sara

Section 355 (extremely hazardous substances): None of the ingredient is listed.

Section 313 (Specific toxic chemical listings): 107-21-1 ethanediol

TSCA (Toxic Substances Control Act):

None of the 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.

Carcinogenicity categories

EPA (Environmental Protection Agency): None of the ingredients are listed.

TLV (Threshold Limit Value established by ACGIH): 107-21-1 ethanediol: A4

MAK (German Maximum Workplace Concentration): None of the ingredients are listed.

NIOSH-CA (National Institute for Occupational Safety and Health): None of the ingredients is listed.

National regulations:

Technical Instructions (air):

Class Share in %:

NK 2.0

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

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

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Section 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.

Contact: 919-481-1977

Date of preparation: 1/19/2016

Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

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)

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

Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A

Please assure that all persons coming into contact with this product are aware of the information contained herein. The information has been compiled from sources considered to be reliable, and is accurate to the knowledge of the manufacturer, although not guaranteed to be so. It is the user's ultimate responsibility to determine for himself the suitability of any material for a specific use, and to adopt such safety precautions as may be necessary. If you need additional information from RS Lining Systems, please call the above listed telephone numbers.
