



SAFETY DATA SHEET

Issuing Date 21-Nov-2013

Revision Date 01-Aug-2014

Revision Number 1

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

GHS product identifier

Product Name Ru-Glyde

Other means of identification

Product Code(s) RG-18, RG-18BK, RG-18CT, RG-18MY, RG-20, RG-20BK, RG-20MY, RG-55, RG-55BK, RGC-18, RGC-20

Synonyms Tire Mounting Lubricant

Recommended use of the chemical and restrictions on use

Recommended Use Tire Mounting and Rubber Lubricant

Uses advised against No information available

Supplier's details

Supplier Address

AGS Company
P.O. Box 729
Muskegon, MI
49443
TEL: 800-253-0403

Emergency telephone number

Emergency Telephone Number 800-255-3924

2. HAZARDS IDENTIFICATION

Classification

This chemical is considered hazardous according to the OSHA Hazard Communication Standard 2012 (29 CFR 1910.1200)

| | |
|---|-------------|
| Acute Oral Toxicity | Category 4 |
| Acute Inhalation Toxicity - Dusts and Mists | Category 4 |
| Skin Corrosion/Irritation | Category 2 |
| Serious Eye Damage/Eye Irritation | Category 2 |
| Carcinogenicity | Category 1A |
| Reproductive Toxicity | Category 1A |

GHS Label elements, including precautionary statements

Emergency Overview

Signal Word**Danger****Hazard Statements**

- Harmful if swallowed
- Harmful if inhaled
- Causes skin irritation
- Causes serious eye irritation
- May cause cancer
- May damage fertility or the unborn child

**Appearance** Tea colored**Physical State** Liquid.**Odor** Odorless**Precautionary Statements****Prevention**

- Avoid breathing dust/fume/gas/mist/vapors/spray.
- Use only outdoors or in a well-ventilated area.
- Wash face, hands and any exposed skin thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- Use personal protective equipment as required.
- Wear protective gloves/protective clothing/eye protection/face protection.

General Advice

- If exposed or concerned: Get medical attention/advice

Eyes

- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- If eye irritation persists: Get medical advice/attention.

Skin

- IF ON SKIN: Wash with plenty of soap and water.
- If skin irritation occurs: Get medical advice/attention.
- Take off contaminated clothing and wash before reuse.

Inhalation

- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- Call a POISON CENTER or doctor/physician if you feel unwell.

Ingestion

- IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
- Rinse mouth.

Storage

- Store locked up.

Disposal

- Dispose of contents/container to an approved waste disposal plant.

Hazard Not Otherwise Classified (HNOC)

Not applicable

Other information

No information available.

0% of the mixture consists of ingredient(s) of unknown toxicity.

3. COMPOSITION/INFORMATION ON INGREDIENTS**Synonyms**

Tire Mounting Lubricant

| Chemical Name | CAS-No | Weight % |
|---|------------|----------|
| Potassium hydroxide | 1310-58-3 | 7.08 |
| Sodium dichromate, dihydrate | 7789-12-0 | 6.93 |
| Ethylene glycol | 107-21-1 | 2.28 |
| Petroleum distillates, solvent dewaxed heavy paraffinic | 64742-65-0 | 0.16 |

4. FIRST AID MEASURES**Description of necessary first-aid measures**

Eye Contact IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Skin Contact Wash off immediately with soap and plenty of water. Get medical attention if irritation develops and persists. Remove and wash contaminated clothing before re-use.

Inhalation IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if exposed or you feel unwell.

Ingestion IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.

Protection of First-aiders Use personal protective equipment. Avoid contact with skin, eyes and clothing.

Most important symptoms/effects, acute and delayed

Most Important Symptoms/Effects Irritation.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES**Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media None

Specific Hazards Arising from the Chemical

Containers may explode when heated.

Hazardous Combustion Products Sodium oxides. Potassium oxides.

Explosion Data**Sensitivity to Mechanical Impact**

None.

Sensitivity to Static Discharge

None.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions Use personal protective equipment. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling.

Environmental Precautions

Environmental Precautions See Section 12 for additional Ecological Information. Do not allow material to contaminate ground water system. Do not flush into surface water or sanitary sewer system.

Methods and materials for containment and cleaning up

Methods for Containment Dike far ahead of liquid spill for later disposal.

Methods for Cleaning Up Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Use personal protective equipment. Sweep up and shovel into suitable containers for disposal. Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE**Precautions for safe handling**

Handling Ensure adequate ventilation. Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use. Avoid breathing vapors or mists. Wash thoroughly after handling.

Conditions for safe storage, including any incompatibilities

Storage Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children.

Incompatible Products Hydrazine, Acids, Halogenated compounds, Strong oxidizing agents.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION**Control parameters****Exposure Guidelines**

| Chemical Name | ACGIH TLV | OSHA PEL | NIOSH IDLH |
|---|---|--|--|
| Potassium hydroxide 1310-58-3 | Ceiling: 2 mg/m ³ | (vacated) Ceiling: 2 mg/m ³ | Ceiling: 2 mg/m ³ |
| Sodium dichromate, dihydrate 7789-12-0 | TWA: 0.05 mg/m ³ Cr | (vacated) Ceiling: 0.1 mg/m ³ Ceiling: 0.1 mg/m ³ CrO ₃ applies to any operations or sectors for which the Hexavalent Chromium standard [29 CFR 1910.1026] is stayed or is otherwise not in effect | IDLH: 15 mg/m ³ Cr(VI) TWA: 0.001 mg/m ³ Cr |
| Ethylene glycol 107-21-1 | Ceiling: 100 mg/m ³ aerosol only | (vacated) Ceiling: 50 ppm (vacated) Ceiling: 125 mg/m ³ | - |
| Petroleum distillates, solvent dewaxed heavy paraffinic 64742-65-0 | TWA: 5 mg/m ³ , as oil mist, mineral STEL: TWA: 10 mg/m ³ , as oil mist, mineral | TWA: 5 mg/m ³ , as oil mist, mineral | - |
| Triethanolamine 102-71-6 | TWA: 5 mg/m ³ | - | - |

Appropriate engineering controls

Engineering Measures Showers
Eyewash stations
Ventilation systems

Individual protection measures, such as personal protective equipment

| | |
|---------------------------------|---|
| Eye/Face Protection | Tightly fitting safety goggles. |
| Skin and Body Protection | Protective gloves. |
| Respiratory Protection | If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations. |
| Hygiene Measures | Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing before re-use. Provide regular cleaning of equipment, work area and clothing. |

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

| | | | |
|--|---------------------------|--------------------------|--------------------------|
| Physical State | Liquid | Appearance | Tea colored |
| Odor | Odorless | Odor Threshold | No information available |
| <u>Property</u> | <u>Values</u> | <u>Remarks/ - Method</u> | |
| pH | 9.6 | None known | |
| Melting Point/Range | No data available | None known | |
| Boiling Point/Boiling Range | 100 °C / 212 °F | None known | |
| Flash Point | No data available | None known | |
| Evaporation rate | Slower than Butyl Acetate | None known | |
| Flammability (solid, gas) | No data available | None known | |
| Flammability Limits in Air | | | |
| upper flammability limit | No data available | | |
| lower flammability limit | No data available | | |
| Vapor Pressure | No data available | None known | |
| Vapor Density | Heavier than air | Air = 1 | |
| Specific Gravity | 1.01 | None known | |
| Water Solubility | Completely soluble | None known | |
| Solubility in other solvents | No data available | None known | |
| Partition coefficient: n-octanol/water | No data available | None known | |
| Autoignition Temperature | No data available | None known | |
| Decomposition Temperature | No data available | None known | |
| Viscosity | No data available | None known | |
| Flammable Properties | Not flammable | | |
| Explosive Properties | No data available | | |
| Oxidizing Properties | No data available | | |
| <u>Other information</u> | | | |
| VOC Content (%) | No data available | | |

10. STABILITY AND REACTIVITY

Reactivity

No data available.

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

None under normal processing.

Hazardous Polymerization

Hazardous polymerization does not occur.

Conditions to avoid

None known based on information supplied.

Incompatible materials

Hydrazine, Acids, Halogenated compounds, Strong oxidizing agents.

Hazardous decomposition products

Sodium oxides. Potassium oxides.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure**Product Information**

| | |
|---------------------|--------------------------------|
| Inhalation | Harmful by inhalation. |
| Eye Contact | Causes serious eye irritation. |
| Skin Contact | Causes skin irritation. |
| Ingestion | Harmful if swallowed. |

Component Information**Symptoms related to the physical, chemical and toxicological characteristics**

| | |
|-----------------|------------|
| Symptoms | Irritation |
|-----------------|------------|

Delayed and immediate effects and also chronic effects from short and long term exposure

| | |
|--------------------------|---|
| Sensitization | No information available. |
| Mutagenic Effects | No information available. |
| Carcinogenicity | Petroleum products are known to cause cancer because of carcinogenic components (e.g. benzene, DMSO). These carcinogenic components are typically found in crude petroleum products and are removed through the refinement process. |

| Chemical Name | ACGIH | IARC | NTP | OSHA |
|---|-------|---------|-------|------|
| Sodium dichromate, dihydrate | A1 | Group 1 | Known | |
| Petroleum distillates, solvent dewaxed heavy paraffinic | A2 | Group 1 | | X |

ACGIH: (American Conference of Governmental Industrial Hygienists)

A2 - Suspected Human Carcinogen

IARC: (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans

NTP: (National Toxicity Program)

Known - Known Carcinogen

OSHA: (Occupational Safety & Health Administration)

X - Present

| | |
|---------------------------------|-------------------------------------|
| Reproductive Toxicity | No information available. |
| Developmental Toxicity | May cause harm to the unborn child. |
| STOT - single exposure | No information available. |
| STOT - repeated exposure | No information available. |
| Aspiration Hazard | No information available. |

Numerical measures of toxicity - Product

Acute Toxicity 0% of the mixture consists of ingredient(s) of unknown toxicity.

The following values are calculated based on chapter 3.1 of the GHS document:

| | |
|-----------------------------|-------------------------------------|
| LD50 Oral | 618 mg/kg; Acute toxicity estimate |
| LD50 Dermal | 3438 mg/kg; Acute toxicity estimate |
| Inhalation dust/mist | 1.4 mg/L; Acute toxicity estimate |

12. ECOLOGICAL INFORMATION

Ecotoxicity

The environmental impact of this product has not been fully investigated.

| Chemical Name | Toxicity to Algae | Toxicity to Fish | Toxicity to Microorganisms | Daphnia Magna (Water Flea) |
|---|---|---|--|---|
| Potassium hydroxide 1310-58-3 | | LC50 96 h: = 80 mg/L static (Gambusia affinis) | | |
| Ethylene glycol 107-21-1 | EC50 96 h: 6500 - 13000 mg/L (Pseudokirchneriella subcapitata) | LC50 96 h: 14 - 18 mL/L static (Oncorhynchus mykiss) LC50 96 h: 40000 - 60000 mg/L static (Pimephales promelas) LC50 96 h: = 16000 mg/L static (Poecilia reticulata) LC50 96 h: = 27540 mg/L static (Lepomis macrochirus) LC50 96 h: = 40761 mg/L static (Oncorhynchus mykiss) LC50 96 h: = 41000 mg/L (Oncorhynchus mykiss) | EC50 = 10000 mg/L 16 h EC50 = 620 mg/L 30 min EC50 = 620.0 mg/L 30 min | EC50 48 h: = 46300 mg/L (Daphnia magna) |
| Petroleum distillates, solvent dewaxed heavy paraffinic 64742-65-0 | | LC50 96 h: > 5000 mg/L (Oncorhynchus mykiss) | | EC50 48 h: > 1000 mg/L (Daphnia magna) |
| Triethanolamine 102-71-6 | EC50 72 h: = 216 mg/L (Desmodesmus subspicatus) EC50 96 h: = 169 mg/L (Desmodesmus subspicatus) | LC50 96 h: 10600 - 13000 mg/L flow-through (Pimephales promelas) LC50 96 h: > 1000 mg/L static (Pimephales promelas) LC50 96 h: 450 - 1000 mg/L static (Lepomis macrochirus) | | EC50 24 h: = 1386 mg/L (Daphnia magna) |

Persistence and Degradability No information available.

Bioaccumulation No information available.

| Chemical Name | Log Pow |
|---------------------|---------|
| Potassium hydroxide | 0.83 |
| Ethylene glycol | -1.93 |

Other Adverse Effects

No information available.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods This material may be a hazardous waste under 40 CFR 261, when discarded.

Contaminated Packaging Do not re-use empty containers.

14. TRANSPORT INFORMATION

DOT Not regulated

TDG Not regulated

MEX Not regulated.

ICAO Not regulated

IATA Not regulated.

IMDG/IMO Not regulated

RID Not regulated

ADR Not regulated

ADN Not regulated

15. REGULATORY INFORMATION

International Inventories

TSCA Complies

DSL Complies

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

U.S. Federal Regulations

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

| Chemical Name | CAS-No | Weight % | SARA 313 - Threshold Values % |
|-----------------|----------|----------|-------------------------------|
| Ethylene glycol | 107-21-1 | 2.28 | 1.0 |

SARA 311/312 Hazard Categories

| | |
|-----------------------------------|-----|
| Acute Health Hazard | Yes |
| Chronic Health Hazard | Yes |
| Fire Hazard | No |
| Sudden Release of Pressure Hazard | No |
| Reactive Hazard | No |

Clean Water Act

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42):

| Chemical Name | CWA - Reportable Quantities | CWA - Toxic Pollutants | CWA - Priority Pollutants | CWA - Hazardous Substances |
|------------------------------|-----------------------------|------------------------|---------------------------|----------------------------|
| Potassium hydroxide | 1000 lb | | | X |
| Sodium dichromate, dihydrate | | X | | |

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302):

| Chemical Name | Hazardous Substances RQs | Extremely Hazardous Substances RQs | RQ |
|---------------------|--------------------------|------------------------------------|--|
| Potassium hydroxide | 1000 lb | | RQ 1000 lb final RQ RQ 454 kg final RQ |
| Ethylene glycol | 5000 lb | | RQ 5000 lb final RQ RQ 2270 kg final RQ |

U.S. State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals:

| Chemical Name | CAS-No | California Prop. 65 |
|------------------------------|-----------|-----------------------------|
| Sodium dichromate, dihydrate | 7789-12-0 | Carcinogen Developmental |

U.S. State Right-to-Know Regulations

| Chemical Name | New Jersey | Massachusetts | Pennsylvania | Illinois | Rhode Island |
|------------------------------|------------|---------------|--------------|----------|--------------|
| Potassium hydroxide | X | X | X | | X |
| Sodium dichromate, dihydrate | | | X | X | X |

| | | | | | |
|-----------------|---|---|---|---|---|
| Ethylene glycol | X | X | X | X | X |
|-----------------|---|---|---|---|---|

U.S. EPA Label Information**EPA Pesticide Registration Number** Not applicable**16. OTHER INFORMATION**

| | | | | |
|-------------|-------------------------|-----------------------|--------------------------|--|
| NFPA | Health Hazard 2 | Flammability 0 | Instability 0 | Physical and Chemical Hazards - |
| HMIS | Health Hazard 2* | Flammability 0 | Physical Hazard 0 | Personal Protection X |

**Indicates a chronic health hazard.*

Prepared By Product Stewardship
23 British American Blvd.
Latham, NY 12110
1-800-572-6501

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General Disclaimer

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of Safety Data Sheet