# FRSC Chemical Solutions

# SAFETY DATA SHEET

# 1. Identification

Product identifier Gunk Glass Cleaner - Streak Free

Other means of identification

SDS number GC1
Part No. GC1

Tariff code 3402.90.5030

Recommended use Glass Cleaner
Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name
Address
RSC Chemical Solutions
600 Radiator Road
Indian Trail, NC 28079

United States

**Telephone** Customer Service: (704) 821-7643

Technical: (704) 684-1811

Website www.rscbrands.com E-mail sds@rscbrands.com

**Emergency phone number** Emergency Telephone: (303) 623-5716

Emergency Contact: RMPDC (877-740-5015)

# 2. Hazard(s) identification

Physical hazardsFlammable aerosolsCategory 1Health hazardsAcute toxicity, inhalationCategory 4Environmental hazardsHazardous to the aquatic environment, acuteCategory 3

hazard

OSHA defined hazards Not classified.

Label elements



Signal word Danger

Hazard statement Extremely flammable aerosol. Harmful if inhaled. Harmful to aquatic life.

**Precautionary statement** 

**Prevention** Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not spray on an open

flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Avoid

breathing vapors. Use only outdoors or in a well-ventilated area. Avoid release to the

environment.

**Response** If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison

center/doctor if you feel unwell.

**Storage** Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

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

Hazard(s) not otherwise

classified (HNOC)

None known.

**Supplemental information** 6.07% of the mixture consists of component(s) of unknown acute hazards to the aquatic

environment.

# 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
Isobutane		75-28-5	3 - < 5
Isopropyl Alcohol		67-63-0	1 - < 3
AMMONIUM HYDROXIDE		1336-21-6	< 1
SODIUM NITRITE		7632-00-0	< 0.2
Other components below reportable leve	ls		90 - 100

<sup>\*</sup>Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

#### 4. First-aid measures

Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or

artificial respiration if needed. Call a POISON CENTER or doctor/physician if you feel unwell.

Skin contact Wash off with soap and water. Get medical attention if irritation develops and persists.

Rinse with water. Get medical attention if irritation develops and persists. Eve contact

In the unlikely event of swallowing contact a physician or poison control center. Rinse mouth. Ingestion

Direct contact with eves may cause temporary irritation. Most important

symptoms/effects, acute and delayed

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

Ensure that medical personnel are aware of the material(s) involved, and take precautions to **General information** protect themselves.

# 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from

the chemical

Contents under pressure. Pressurized container may explode when exposed to heat or flame. During fire, gases hazardous to health may be formed. Firefighters must use standard protective equipment including flame retardant coat, helmet with

Special protective equipment and precautions for firefighters

Fire fighting

face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor pressure build up. For massive fire in cargo area, use unmanned hose

equipment/instructions

Specific methods

holder or monitor nozzles, if possible. If not, withdraw and let fire burn out. Use standard firefighting procedures and consider the hazards of other involved materials. Move

containers from fire area if you can do so without risk. In the event of fire and/or explosion do not breathe fumes.

General fire hazards Extremely flammable aerosol.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Avoid inhalation of vapors and spray mists. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the

Methods and materials for containment and cleaning up Refer to attached safety data sheets and/or instructions for use. Keep combustibles (wood, paper, oil, etc.) away from spilled material. Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Prevent product from entering drains. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. For waste disposal, see section 13 of the SDS.

#### **Environmental precautions**

Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. Inform appropriate managerial or supervisory personnel of all environmental releases.

# 7. Handling and storage

# Precautions for safe handling

Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. All equipment used when handling the product must be grounded. Do not re-use empty containers. Avoid inhalation of vapors and spray mists. Avoid prolonged exposure. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.

# Conditions for safe storage, including any incompatibilities

Level 1 Aerosol.

Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122 °F. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Store in a well-ventilated place. Keep out of the reach of children. Store away from incompatible materials (see Section 10 of the SDS).

1/-1--

# 8. Exposure controls/personal protection

#### Occupational exposure limits

Campananta

US. OSHA Table Z-1	I imits for Air	Contaminants	(29 CFR	1910 1000\
US. USITA TABLE 2-1		Contaminants	123 01 1	1310.10001

Components	Туре	Value	
AMMONIUM HYDROXIDE (CAS 1336-21-6)	PEL	35 mg/m3	
		50 ppm	
Isopropyl Alcohol (CAS 67-63-0)	PEL	980 mg/m3	
•		400 ppm	
<b>US. ACGIH Threshold Limit Value</b>	es		
Components	Туре	Value	
AMMONIUM HYDROXIDE (CAS 1336-21-6)	STEL	35 ppm	
	TWA	25 ppm	
Isobutane (CAS 75-28-5)	STEL	1000 ppm	
Isopropyl Alcohol (CAS 67-63-0)	STEL	400 ppm	
ŕ	TWA	200 ppm	
US. NIOSH: Pocket Guide to Cher	nical Hazards		
Components	Туре	Value	
AMMONIUM HYDROXIDE (CAS 1336-21-6)	STEL	27 mg/m3	
,		35 ppm	
	TWA	18 mg/m3	
		25 ppm	
Isobutane (CAS 75-28-5)	TWA	1900 mg/m3	
		800 ppm	
Isopropyl Alcohol (CAS 67-63-0)	STEL	1225 mg/m3	
		500 ppm	
	TWA	980 mg/m3	
		400 ppm	

# **Biological limit values**

ACGIH Biological Exposure Indices				
Components	Value	Determinant	Specimen	Sampling Time
Isopropyl Alcohol (CAS 67-63-0)	40 mg/l	Acetone	Urine	*

<sup>\* -</sup> For sampling details, please see the source document.

# Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

## Individual protection measures, such as personal protective equipment

Eye/face protection Chemical respirator with organic vapor cartridge and full facepiece.

Skin protection

Hand protection Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove

supplier.

Other Wear suitable protective clothing.

Respiratory protection Chemical respirator with organic vapor cartridge and full facepiece.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work

clothing and protective equipment to remove contaminants.

# 9. Physical and chemical properties

**Appearance** Clear. Liquid.

Physical state Liquid. Aerosol. **Form** Colorless Color Odor Ammonia **Odor threshold** Not available. 10.5 - 11.5 Ha Melting point/freezing point Not available. Initial boiling point and boiling Not available.

range

Flash point None

**Evaporation rate** Not available. Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

Flammability limit - lower

Not available.

(%)

Flammability limit - upper

Not available.

Explosive limit - lower (%) Not available. Explosive limit - upper (%) Not available.

0.00001 hPa estimated Vapor pressure

Vapor density Not available. Not available. Relative density

Solubility(ies)

Solubility (water) Not available. Partition coefficient Not available.

(n-octanol/water)

Not available. **Auto-ignition temperature** Not available. **Decomposition temperature** Not available. Viscosity

Other information

Density 8.17 lbs/gal estimated

**Explosive properties** Not explosive. No Extension Flame extension

Flammability (flash back) No

Heat of combustion (NFPA 2.09 kJ/g estimated

30B)

Oxidizing properties Not oxidizing. 94.15 % estimated Percent volatile

**Specific gravity** 0.98 - 1 **VOC (Weight %)** 5.94 % w/w

# 10. Stability and reactivity

**Reactivity**The product is stable and non-reactive under normal conditions of use, storage and transport.

**Chemical stability** Material is stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

**Conditions to avoid** Contact with incompatible materials.

Incompatible materials Strong oxidizing agents.

Hazardous decomposition

products

No hazardous decomposition products are known.

# 11. Toxicological information

# Information on likely routes of exposure

Inhalation Harmful if inhaled.

Skin contact

No adverse effects due to skin contact are expected.

Eye contact

Direct contact with eyes may cause temporary irritation.

**Ingestion** Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and toxicological characteristics

Direct contact with eyes may cause temporary irritation.

## Information on toxicological effects

Acute toxicity Harmful if inhaled.

Components	Species	Test Results
------------	---------	--------------

AMMUNIUM HTDRUXIDE (CAS 1330-21-0	NIUM HYDROXIDE (CAS 1336-21-6)
-----------------------------------	--------------------------------

Acute Oral

LD50 Rat 350 mg/kg

Isobutane (CAS 75-28-5)

**Acute** 

Inhalation

LC50 Mouse 52 mg/l, 1 Hours

Isopropyl Alcohol (CAS 67-63-0)

<u>Acute</u>

**Dermal** 

LD50 Rabbit 12800 mg/kg

Oral

LD50 Dog 4797 mg/kg

 Mouse
 3600 mg/kg

 Rabbit
 5.03 g/kg

 Rat
 4.7 g/kg

SODIUM NITRITE (CAS 7632-00-0)

**Acute** 

Inhalation

LC50 Rat 5.5 mg/l, 4 Hours

Oral

LD50 Mouse 175 mg/kg

Rabbit 186 mg/kg
Rat 85 mg/kg

Material name: Gunk Glass Cleaner - Streak Free

SDS US

GC1 Version #: 02 Revision date: 08-10-2015 Issue date: 05-08-2015

<sup>\*</sup> Estimates for product may be based on additional component data not shown.

Skin corrosion/irritation

Serious eye damage/eye

irritation

Prolonged skin contact may cause temporary irritation. Direct contact with eyes may cause temporary irritation.

Respiratory or skin sensitization

Respiratory sensitization

Not a respiratory sensitizer.

Skin sensitization This product is not expected to cause skin sensitization.

No data available to indicate product or any components present at greater than 0.1% are Germ cell mutagenicity

mutagenic or genotoxic.

This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA. Carcinogenicity

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

This product is not expected to cause reproductive or developmental effects. Reproductive toxicity

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

**Aspiration hazard** Not an aspiration hazard.

**Chronic effects** Prolonged inhalation may be harmful.

# 12. Ecological information

Harmful to aquatic life. **Ecotoxicity** 

Components **Species** Test Results

AMMONIUM HYDROXIDE (CAS 1336-21-6)

**Aquatic** 

LC50 Fish Western mosquitofish (Gambusia affinis) 15 mg/l, 96 hours

Isopropyl Alcohol (CAS 67-63-0)

**Aquatic** 

Fish LC50 Bluegill (Lepomis macrochirus) > 1400 mg/l, 96 hours

SODIUM NITRITE (CAS 7632-00-0)

Aquatic

Crustacea EC50 16.14 - 26.61 mg/l, 48 hours Greasyback shrimp (Metapenaeus

ensis)

Fish LC50 Rainbow trout, donaldson trout 0.15 - 0.25 mg/l, 96 hours

(Oncorhynchus mykiss)

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

Isobutane 2.76 Isopropyl Alcohol 0.05

No data available. Mobility in soil

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

#### 13. Disposal considerations

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents **Disposal instructions** 

under pressure. Do not puncture, incinerate or crush. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international

regulations.

Local disposal regulations Dispose in accordance with all applicable regulations.

Hazardous waste code The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Material name: Gunk Glass Cleaner - Streak Free

GC1 Version #: 02 Revision date: 08-10-2015 Issue date: 05-08-2015

<sup>\*</sup> Estimates for product may be based on additional component data not shown.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Consumer Commodity

Contaminated packaging

Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

# 14. Transport information

DOT

**UN number** Not available.

**UN** proper shipping name

Transport hazard class(es)

Class ORM-D

Subsidiary risk 2.1 Label(s)

Packing group Not applicable.

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Special provisions 19. T50 Packaging exceptions 306

Packaging non bulk 304 314, 315 Packaging bulk

IATA

Not regulated as dangerous goods.

**IMDG** 

**UN** number UN1950 UN proper shipping name **AEROSOLS** 

Transport hazard class(es)

Class 2 Subsidiary risk

Packing group Not applicable.

**Environmental hazards** 

Marine pollutant No. **EmS** F-D. S-U

Transport in bulk according to

Special precautions for user Read safety instructions, SDS and emergency procedures before handling. Not established.

Annex II of MARPOL 73/78 and

the IBC Code

**IMDG** 



# 15. Regulatory information

**US** federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

SODIUM NITRITE (CAS 7632-00-0) 1.0 % One-Time Export Notification only.

**CERCLA Hazardous Substance List (40 CFR 302.4)** 

AMMONIUM HYDROXIDE (CAS 1336-21-6) Listed. Isobutane (CAS 75-28-5) Listed. Isopropyl Alcohol (CAS 67-63-0) Listed. SODIUM NITRITE (CAS 7632-00-0) Listed.

SARA 304 Emergency release notification

Not regulated.

### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

#### Superfund Amendments and Reauthorization Act of 1986 (SARA)

No

Hazard categories Immediate Hazard - Yes

Delayed Hazard - No Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No

#### SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

chemical

# SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.	
Isopropyl Alcohol	67-63-0	1 - < 3	
AMMONIUM HYDROXIDE	1336-21-6	< 1	

#### Other federal regulations

#### Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

#### Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Isobutane (CAS 75-28-5)

Safe Drinking Water Act

Not regulated.

(SDWA)

#### **US state regulations**

#### US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)

Not listed

# US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd.

(a))

Isobutane (CAS 75-28-5)

Isopropyl Alcohol (CAS 67-63-0)

# US. Massachusetts RTK - Substance List

AMMONIUM HYDROXIDE (CAS 1336-21-6)

Isobutane (CAS 75-28-5)

Isopropyl Alcohol (CAS 67-63-0)

SODIUM NITRITE (CAS 7632-00-0)

#### US. New Jersey Worker and Community Right-to-Know Act

AMMONIUM HYDROXIDE (CAS 1336-21-6)

Isobutane (CAS 75-28-5)

Isopropyl Alcohol (CAS 67-63-0)

SODIUM NITRITE (CAS 7632-00-0)

# US. Pennsylvania Worker and Community Right-to-Know Law

AMMONIUM HYDROXIDE (CAS 1336-21-6)

Isobutane (CAS 75-28-5)

Isopropyl Alcohol (CAS 67-63-0)

SODIUM NITRITE (CAS 7632-00-0)

#### **US. Rhode Island RTK**

AMMONIUM HYDROXIDE (CAS 1336-21-6)

Isobutane (CAS 75-28-5)

Isopropyl Alcohol (CAS 67-63-0)

SODIUM NITRITE (CAS 7632-00-0)

## **US. California Proposition 65**

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

#### **International Inventories**

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No

Country(s) or region Inventory name On inventory (yes/no)\* China Inventory of Existing Chemical Substances in China (IECSC) European Inventory of Existing Commercial Chemical Europe Nο Substances (EINECS) Europe European List of Notified Chemical Substances (ELINCS) No Japan Inventory of Existing and New Chemical Substances (ENCS) No Korea Existing Chemicals List (ECL) Yes New Zealand New Zealand Inventory Yes Philippines Philippine Inventory of Chemicals and Chemical Substances Yes

(PICCS)

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

# 16. Other information, including date of preparation or last revision

05-08-2015 Issue date 08-10-2015 **Revision date** 

Version # 02

**HMIS®** ratings Health: 2

Flammability: 4 Physical hazard: 0

Health: 2 NFPA ratings

Flammability: 4 Instability: 0

NFPA ratings



Disclaimer The information provided in this Safety Data Sheet 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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

materials or in any process, unless specified in the text.

Physical & Chemical Properties: Multiple Properties **Revision Information** 

Physical and chemical properties: Odor

Stability and reactivity: Possibility of hazardous reactions Transport Information: Material Transportation Information

GHS: Classification

Material name: Gunk Glass Cleaner - Streak Free

GC1 Version #: 02 Revision date: 08-10-2015 Issue date: 05-08-2015

Yes

<sup>\*</sup>A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).