

SAFETY DATA SHEET

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

Product identifier

Product Name Glass & Chrome Cleaner

Other means of identification

UN-No. UN1950

Synonyms None

Recommended use of the chemical and restrictions on use

Recommended Use Glass cleaner - Aerosol

Uses advised against No information available

Details of the supplier of the safety data sheet

Supplier Name Ningbo Rejoice I/E Co., Ltd.

Supplier Address Rm402, Unit 4, North Bank Fortune Centre, Jiangbei, Ningbo, 315020, China
Ningbo
Zhejiang
315020
CN

Supplier Phone Number Phone: 0086-574-87170403
Fax: 0086-574-87170180

Supplier Email powerwell2000@hotmail.com

Emergency telephone number

Company Emergency Phone Number 0086-13586668388

2. HAZARDS IDENTIFICATION

Classification


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

Gases under pressure

Compressed gas



GHS Label elements, including precautionary statements**Emergency Overview**

Signal word	Warning	
Contains gas under pressure; may explode if heated		
		
Appearance Clear	Physical state Liquid spray Aerosol	Odor Fresh

Precautionary Statements - Prevention

Obtain special instructions before use

Precautionary Statements - Response

None

Precautionary Statements - Storage

Protect from sunlight. Store in a well-ventilated place

Precautionary Statements - Disposal

None

Hazards not otherwise classified (HNOC)

Not applicable

Unknown Toxicity

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

Other information

Causes mild skin irritation

Harmful to aquatic life

PROLONGED OR REPEATED CONTACT MAY DRY SKIN AND CAUSE IRRITATION

May cause slight eye irritation

Interactions with Other Chemicals

No information available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%	Trade Secret
Butane	106-97-8	1 - 5	*
Isopropyl alcohol	67-63-0	1 - 5	*
Propane	74-98-6	1 - 5	*
2-Butoxyethanol	111-76-2	1 - 5	*
Alcohol	64-17-5	0.1 - 1	*
Lauryl polyethylene glycol ether	9002-92-0	0.1 - 1	*
Sodium nitrite	7632-00-0	0.1 - 1	*

*The exact percentage (concentration) of composition has been withheld as a trade secret

4. FIRST AID MEASURES

First aid measures

Eye contact	Rinse thoroughly with plenty of water, also under the eyelids. If symptoms persist, call a physician.
Skin contact	In case of contact with liquefied gas, thaw frosted parts with lukewarm water.
Inhalation	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, (trained personnel should) give oxygen.
Ingestion	Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person.
Self-protection of the first aider	Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination.

Most important symptoms and effects, both acute and delayed

Most Important Symptoms and Effects	No information available.
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Indication of any immediate medical attention and special treatment needed

Notes to Physician	Treat symptomatically.
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5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Dry chemical. Carbon dioxide (CO₂).

Unsuitable extinguishing media

DO NOT EXTINGUISH A LEAKING GAS FIRE UNLESS LEAK CAN BE STOPPED.

Specific hazards arising from the chemical

Ruptured cylinders may rocket. Some may burn but none ignite readily.

Explosion Data

Sensitivity to Mechanical Impact Yes.

Sensitivity to Static Discharge Yes.

Protective equipment and precautions for firefighters

Move containers from fire area if you can do it without risk. Damaged cylinders should be handled only by specialists.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions Stop leak if you can do it without risk.

Other Information Ventilate the area.

Environmental precautions

Environmental precautions Prevent entry into waterways, sewers, basements or confined areas.

Methods and material for containment and cleaning up

Methods for containment If possible, turn leaking containers so that gas escapes rather than liquid. Allow substance to evaporate.

Methods for cleaning up Do not direct water at spill or source of leak.

7. HANDLING AND STORAGE

Precautions for safe handling

Handling

Use personal protection equipment. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not spray on an open flame or other ignition source. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Use spark-proof tools and explosion-proof equipment. Use only with adequate ventilation and in closed systems. Keep in an area equipped with sprinklers. Do not puncture or incinerate cans. Contents under pressure. In case of rupture. Avoid contact with skin and eyes. Avoid breathing vapors or mists.

Conditions for safe storage, including any incompatibilities

Storage

Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from sunlight. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labeled containers. Do not store near combustible materials. Keep in an area equipped with sprinklers. Store in accordance with the particular national regulations. Store in accordance with local regulations.

Incompatible Products

Strong oxidizing agents. Acids. Chlorinated compounds.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Butane 106-97-8	STEL: 1000 ppm	(vacated) TWA: 800 ppm (vacated) TWA: 1900 mg/m ³	TWA: 800 ppm TWA: 1900 mg/m ³
Isopropyl alcohol 67-63-0	STEL: 400 ppm TWA: 200 ppm	TWA: 400 ppm TWA: 980 mg/m ³ (vacated) TWA: 400 ppm (vacated) TWA: 980 mg/m ³ (vacated) STEL: 500 ppm (vacated) STEL: 1225 mg/m ³	IDLH: 2000 ppm 10% LEL TWA: 980 mg/m ³ TWA: 400 ppm STEL: 500 ppm STEL: 1225 mg/m ³
Propane 74-98-6	TWA: 1000 ppm	TWA: 1000 ppm TWA: 1800 mg/m ³	IDLH: 2100 ppm TWA: 1000 ppm TWA: 1800 mg/m ³
2-Butoxyethanol 111-76-2	TWA: 20 ppm	TWA: 50 ppm TWA: 240 mg/m ³ (vacated) TWA: 25 ppm (vacated) TWA: 120 mg/m ³ (vacated) S*	IDLH: 700 ppm TWA: 5 ppm TWA: 24 mg/m ³
Alcohol 64-17-5	STEL: 1000 ppm	TWA: 1000 ppm TWA: 1900 mg/m ³ (vacated) TWA: 1000 ppm (vacated) TWA: 1900 mg/m ³	IDLH: 3300 ppm TWA: 1000 ppm TWA: 1900 mg/m ³

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits NIOSH IDLH Immediately Dangerous to Life or Health

Other Exposure Guidelines

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992)

Appropriate engineering controls

Engineering Measures

Showers



Eyewash stations
Ventilation systems

Individual protection measures, such as personal protective equipment

Eye/face protection	Tight sealing safety goggles.
Skin and body protection	Wear protective gloves and protective clothing. Long sleeved clothing. Chemical resistant apron. Impervious gloves. Antistatic boots.
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. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties

Physical state	Liquid spray, Aerosol	Odor	Fresh
Appearance	Clear	Odor Threshold	No information available
Color	No information available		

<u>Property</u>	<u>Values</u>	<u>Remarks Method</u>
pH	8	None known
Melting / freezing point	No data available	None known
Boiling point / boiling range	No data available	None known
Flash Point	No data available	None known
Evaporation Rate	No data available	None known
Flammability (solid, gas)	No data available	None known
Flammability Limit in Air		
Upper flammability limit	No data available	
Lower flammability limit	No data available	
Vapor pressure	No data available	None known
Vapor density	No data available	None known
Specific Gravity	0.95	None known
Water Solubility	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
Kinematic viscosity	No data available	None known
Dynamic viscosity	No data available	None known
Explosive properties	No data available	
Oxidizing properties	No data available	

Other Information

Softening Point	No data available
VOC Content (%)	No data available
Particle Size	No data available
Particle Size Distribution	

10. STABILITY AND REACTIVITY

Reactivity

No data available.

Chemical stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Conditions to avoid

Heat, flames and sparks. Excessive heat.

Incompatible materials

Strong oxidizing agents. Acids. Chlorinated compounds.

Hazardous Decomposition Products

Carbon oxides.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Inhalation	Specific test data for the substance or mixture is not available.
Eye contact	Specific test data for the substance or mixture is not available.
Skin contact	Specific test data for the substance or mixture is not available.
Ingestion	Specific test data for the substance or mixture is not available.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Butane 106-97-8	-	-	= 658 g/m ³ (Rat) 4 h
Isopropyl alcohol 67-63-0	= 4396 mg/kg (Rat)	= 12800 mg/kg (Rabbit)	= 16000 ppm (Rat) 8 h
Propane 74-98-6	-	-	= 658 mg/L (Rat) 4 h
2-Butoxyethanol 111-76-2	= 470 mg/kg (Rat)	= 220 mg/kg (Rabbit)	= 450 ppm (Rat) 4 h
Alcohol 64-17-5	= 7060 mg/kg (Rat)	-	= 124.7 mg/L (Rat) 4 h
Sodium nitrite 7632-00-0	= 85 mg/kg (Rat)	-	= 5.5 mg/L (Rat) 4 h

Information on toxicological effects

Symptoms No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization No information available.

Mutagenic Effects No information available.

Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen. Ethanol has been shown to be carcinogenic in long-term studies only when consumed as alcoholic beverage.

Chemical Name	ACGIH	IARC	NTP	OSHA
Isopropyl alcohol 67-63-0		Group 3		X
2-Butoxyethanol 111-76-2	A3	Group 3		
Alcohol 64-17-5	A3	Group 1	Known	X
Sodium nitrite 7632-00-0		Group 2A		X

ACGIH (American Conference of Governmental Industrial Hygienists)

A3 - Animal Carcinogen

IARC (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans

Group 2A - Probably Carcinogenic to Humans

Group 3 - Not Classifiable as to Carcinogenicity in Humans

NTP (National Toxicology Program)

Known - Known Carcinogen

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

Reproductive toxicity

No information available.

STOT - single exposure

No information available.

STOT - repeated exposure

No information available.

Chronic Toxicity

No known effect based on information supplied.

Target Organ Effects

None known.

Aspiration Hazard

No information available.

Numerical measures of toxicity Product Information

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

ATEmix (oral)

20,261.00 mg/kg

ATEmix (dermal)

93,867.00 mg/kg (ATE)

ATEmix (inhalation-dust/mist)

150.00 mg/l

ATEmix (inhalation-vapor)

788.00 ATEmix

12. ECOLOGICAL INFORMATION

Ecotoxicity

Harmful to aquatic life.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Isopropyl alcohol 67-63-0	96h EC50: > 1000 mg/L (Desmodesmus subspicatus) 72h EC50: > 1000 mg/L (Desmodesmus subspicatus)	96h LC50: > 1400000 µg/L (Lepomis macrochirus) 96h LC50: = 11130 mg/L (Pimephales promelas) 96h LC50: = 9640 mg/L (Pimephales promelas)		48h EC50: = 13299 mg/L
2-Butoxyethanol 111-76-2		96h LC50: = 1490 mg/L (Lepomis macrochirus) 96h LC50: = 2950 mg/L (Lepomis macrochirus)		48h EC50: > 1000 mg/L 24h EC50: 1698 - 1940 mg/L
Alcohol 64-17-5		96h LC50: 12.0 - 16.0 mL/L (Oncorhynchus mykiss) 96h LC50: > 100 mg/L (Pimephales promelas) 96h LC50: 13400 - 15100 mg/L (Pimephales promelas)	EC50 = 34634 mg/L 30 min EC50 = 35470 mg/L 5 min	48h LC50: 9268 - 14221 mg/L 48h EC50: = 2 mg/L 24h EC50: = 10800 mg/L
Sodium nitrite 7632-00-0		96h LC50: 0.092 - 0.13 mg/L (Oncorhynchus mykiss) 96h LC50: 0.4 - 0.6 mg/L (Oncorhynchus mykiss) 96h LC50: 0.65 - 1 mg/L (Oncorhynchus mykiss) 96h LC50: = 2.3 mg/L (Pimephales promelas) 96h LC50: = 20 mg/L (Pimephales promelas) 96h LC50: = 0.19 mg/L (Oncorhynchus mykiss)		

Persistence and Degradability

No information available.

Bioaccumulation

Chemical Name	Log Pow
Butane 106-97-8	2.89
Isopropyl alcohol 67-63-0	0.05
Propane 74-98-6	2.3
2-Butoxyethanol 111-76-2	0.81
Alcohol 64-17-5	-0.32
Sodium nitrite 7632-00-0	-3.7

Other adverse effects

No information available.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal methods

This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements. Should not be released into the environment. Dispose of contents/containers in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated Packaging

Dispose of contents/containers in accordance with local regulations.

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical Name	California Hazardous Waste
Isopropyl alcohol 67-63-0	Toxic Ignitable
Alcohol 64-17-5	Toxic Ignitable
Sodium nitrite 7632-00-0	Toxic Ignitable Reactive

14. TRANSPORT INFORMATION

DOT

UN-No. UN1950
Proper Shipping Name Aerosols
Hazard Class 2.2
Reportable Quantity (RQ) (RQ/% in mixture) Sodium nitrite: RQ kg= 22700.00
Description UN1950, Aerosols, 2.2, RQ
Emergency Response Guide Number 126

TDG

UN-No. UN1950
Proper Shipping Name Aerosols
Hazard Class 2.2
Description UN1950, Aerosols, 2.2

MEX

UN-No. UN1950
Proper Shipping Name Aerosols
Hazard Class 2
Description UN1950, Aerosols, 2

ICAO

UN-No. UN1950
Proper Shipping Name Aerosols
Hazard Class 2.2
Description UN1950, Aerosols, 2.2



IATA

UN-No. UN1950
 Proper Shipping Name Aerosols, non-flammable
 Hazard Class 2.2
 Description UN1950, Aerosols, non-flammable, 2.2

IMDG/IMO

UN-No. UN1950
 Proper Shipping Name Aerosols
 Hazard Class 2
 EmS-No. F-D, S-U
 Description UN1950, Aerosols, 2

RID

UN-No. UN1950
 Proper Shipping Name Aerosols
 Hazard Class 2.2
 Classification code 5A
 Description UN1950, Aerosols, 2.2

ADR

UN-No. UN1950
 Proper Shipping Name Aerosols
 Hazard Class 2.2
 Classification code 5A
 Tunnel restriction code (E)
 Description UN1950, Aerosols, 2.2

ADN

UN-No. UN1950
 Proper Shipping Name Aerosols
 Hazard Class 2.2
 Classification code 5A
 Special Provisions 190, 327, 344, 625
 Description UN1950, Aerosols, 2.2
 Hazard Labels 2.2
 Limited Quantity 1 L
 Ventilation VE04

15. REGULATORY INFORMATION

International Inventories

TSCA Complies
 DSL All components are listed either on the DSL or NDSL.

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

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

US Federal Regulations**SARA 313**

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 %
Isopropyl alcohol - 67-63-0	67-63-0	1 - 5	1.0
2-Butoxyethanol - 111-76-2	111-76-2	1 - 5	1.0
Sodium nitrite - 7632-00-0	7632-00-0	0.1 - 1	1.0



SARA 311/312 Hazard Categories

Acute Health Hazard	No
Chronic Health Hazard	No
Fire Hazard	No
Sudden release of pressure hazard	Yes
Reactive Hazard	No

CWA (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
Sodium nitrite 7632-00-0	100 lb			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
Sodium nitrite 7632-00-0	100 lb		RQ 100 lb final RQ RQ 45.4 kg final RQ

US State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals. Ethyl alcohol is only a considered a Proposition 65 developmental hazard when it is ingested as an alcoholic beverage.

Chemical Name	California Proposition 65
Alcohol - 64-17-5	Developmental

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Rhode Island	Illinois
Butane 106-97-8	X	X	X		
Isopropyl alcohol 67-63-0	X	X	X	X	
Propane 74-98-6	X	X	X		
2-Butoxyethanol 111-76-2	X	X	X	X	X
Alcohol 64-17-5	X	X	X		X

International Regulations

Mexico

National occupational exposure limits

Component	Carcinogen Status	Exposure Limits
Butane 106-97-8 (1 - 5)		Mexico: TWA 800 ppm Mexico: TWA 1900 mg/m ³
Isopropyl alcohol 67-63-0 (1 - 5)		Mexico: TWA 400 ppm Mexico: TWA 980 mg/m ³ Mexico: STEL 500 ppm Mexico: STEL 1225 mg/m ³
2-Butoxyethanol 111-76-2 (1 - 5)		Mexico: TWA 26 ppm Mexico: TWA 120 mg/m ³ Mexico: STEL 75 ppm Mexico: STEL 360 mg/m ³



Alcohol 64-17-5 (0.1 - 1)	Mexico: TWA= 1900 mg/m ³ Mexico: TWA= 1000 ppm
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Mexico - Occupational Exposure Limits - Carcinogens

Canada
WHMIS Hazard Class
Not determined

16. OTHER INFORMATION

NFPA	Health Hazards 1	Flammability 4	Instability 0	Physical and Chemical Hazards - Personal Protection X
HMIS	Health Hazards 1	Flammability 4	Physical Hazard 0	

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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

End of Safety Data Sheet

