

**SECTION 1: Identification**

**GHS Product identifier:** RAC DE-ICER 700ml Black lid and nozzle

**Other means of identification:** See section 3

**Recommended use of the chemical and restrictions on use**

**Recommended use:** Remove ice.

**Recommended Restrictions:** Not available

**Details of the supplier of the safety data sheet:**

**Supplier(Manufacturer):** ZHEJIANG SANMEN GANGLONG AUTO ACCESSORIES CO., LTD

**Address:** No.76 Haichuan Road,Jiangbei District,Ningbo,China

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**SECTION 2: Hazard identification****Classification of the substance or mixture:**

**Physical hazards:** Aerosols Category 1

**Health hazards:** Acute toxicity – oral Category 3

Acute toxicity – dermal Category 3

Acute toxicity – inhalation Category 4

Specific target organ toxicity (single exposure) Category 1

Specific target organ toxicity (repeated exposure) Category 2

**Environmental hazards:** Not classified

**GHS label elements:****Hazard Pictograms:**

**Signal word:** Danger

**Hazard statement:** Extremely flammable aerosol

Pressurized container: may burst if heated

Toxic if swallowed

Toxic in contact with skin

Harmful if inhaled

Causes damage to organs <Optic nerve (nervus opticus), central nervous system>

May cause damage to organs <kidney> through prolonged or repeated exposure <Oral>

**Precautionary statement:****Prevention:**

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Do not spray on an open flame or other ignition source.

Do not pierce or burn, even after use.

Do not breathe dust/fume/gas/mist/ vapours/spray.

Wash hands thoroughly after handling.

Do not eat, drink or smoke when using this product.

Use only outdoors or in a well-ventilated area.

Wear protective gloves/protective clothing.

**Response:**

IF SWALLOWED: Immediately call a POISON CENTER/doctor.

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IF ON SKIN: Wash with plenty of water.  
 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
 IF exposed or concerned: Call a POISON CENTER/doctor.  
 Call a POISON CENTER/doctor if you feel unwell.  
 Get medical advice/attention if you feel unwell.  
 Rinse mouth.  
 Take off immediately all contaminated clothing and wash it before reuse.  
 Store locked up.  
 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.  
 Dispose of contents/container to local regulations.  
 Not applicable

**Storage:****Disposal:****Specific hazards:****SECTION 3: Composition/information on ingredients****Substance/Mixture:** Mixture**Ingredient(s):**

Chemical Name	CAS No.	EC No.	Concentration
Methyl alcohol	67-56-1	200-659-6	34%
Dimethyl ether	115-10-6	204-065-8	30%
Aqua	7732-18-5	231-791-2	26%
Ethylene glycol	107-21-1	203-473-3	10%

**SECTION 4: First-aid measures****Description of necessary first-aid measures:**

**Inhalation:** Move to fresh air. Oxygen or artificial respiration if needed. Get immediate medical attention.  
**Skin:** Immediately flush skin with plenty of water. Remove and isolate contaminated clothing and shoes. If irritation persists, get medical attention immediately. For minor skin contact, avoid spreading material on unaffected skin. Wash clothing separately before reuse.  
**Eye:** Immediately flush, eyes with plenty of water for at least 15 minutes. Assure adequate flushing of the eyes by separating the eyelids with fingers. Get medical attention immediately.  
**Ingestion:** Do not induce vomiting without medical advice. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Loosen tight clothing such as a collar, tie, belt, or waistband. Do not use mouth-to-mouth method if victim ingested the substance. Seek immediate medical attention.

**Most important symptoms and effects, both acute and delayed:**

Toxic if swallowed. Toxic in contact with skin. Harmful if inhaled. Causes damage to organs <Optic nerve (nervus opticus), central nervous system>. May cause damage to organs <kidney> through prolonged or repeated exposure <Oral>.

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

Treat symptomatically.

**SECTION 5: Fire-fighting measures**

**Suitable extinguishing media:** Water spray, foam, CO<sub>2</sub>, dry chemical powder, sandy soil.

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<b>Unsuitable extinguishing media:</b>	Not available.
<b>Specific hazards arising from the chemical</b>	Can be released in case of fire: Carbon oxides, irritating and toxic fumes and gases.
<b>Special protective actions for fire-fighters</b>	Self-contained breathing apparatus and full protective clothing must be worn in case of fire. In the event of fire, cool tanks with water spray.

**SECTION 6: Accidental release measures**

<b>Personal precautions, protective equipment and emergency procedures:</b>	Ensure adequate ventilation. Remove all sources of ignition. Beware of vapors accumulating to form explosive concentrations. Ventilate closed spaces before entering. Keep unnecessary personnel away.
<b>Environmental precautions:</b>	Prevent further leakage or spillage if safe to do so. Do not allow material to be released to the environment without proper governmental permits.
<b>Methods and materials for containment and cleaning up:</b>	Contain spillage, and then collect with non-combustible absorbent material(e.g. sand, earth, diatomaceous earth, vermiculite) and place in suitable container. Clean contaminated surface thoroughly.

**SECTION 7: Handling and storage**

<b>Precautions for safe handling:</b>	Avoid inhalation of vapor or mist. Keep out of reach of children. Do not spray directly towards face. In case of insufficient ventilation, wear suitable respiratory equipment if ingested. Keep away from heat, sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge. Containers under pressure. Do not puncture, incinerate.
<b>Conditions for safe storage, including any incompatibilities:</b>	Keep in cool, dry, well-ventilated place. Keep tightly closed until used. Store away from incompatible substance such as strong oxidizing agents, strong bases, strong acids etc. Save less than 50°C.

**SECTION 8: Exposure controls/personal protection****Control parameters:**

Substance	CAS No.	Occupational Exposure Limit Value (8-hour reference period)		Occupational Exposure Limit Value (15-minute reference period)		
		ppm	mg/ m3	ppm	mg/ m3	Notes
Methyl alcohol	67-56-1	200	260	250	310	Sk, IOELV
Dimethyl ether	115-10-6	1000	1920	-	-	IOELV
Ethane-1,2-diol, particulate vapour	107-21-1	- 20	10 52	- 40	- 104	Sk, IOELV

**Appropriate engineering controls:** Facilities storing or utilizing this material should be equipped with an eyewash and a safety shower facility. Use adequate ventilation to keep airborne concentrations low.

**Individual protection measures:**

**Eye/face protection:** Use safety glasses with side shields or safety goggles as mechanical barrier for prolonged exposure.

**Skin protection:** Full set of anti chemical reagent overalls, flame retardant antistatic protective clothing, choose body protection according to the amount and concentration of the dangerous substance at the work place.

**Respiratory protection:** When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

**Hand protection:** Wear appropriate chemical resistant gloves.

## SECTION 9: Physical and chemical properties and safety characteristics

### Appearance:

<b>Physical state:</b>	Aerosol
<b>Form:</b>	Aerosol
<b>Color:</b>	Metal tank with color shell, containing colorless transparent liquid
<b>Odor:</b>	Not available
<b>Odor threshold:</b>	Not available
<b>pH:</b>	Not available
<b>Melting point/Freezing point:</b>	-97.8 °C(CAS#67-56-1)
<b>Initial boiling point and boiling range:</b>	64.7 °C(CAS#67-56-1)
<b>Flash point:</b>	Extremely flammable aerosol
<b>Auto-ignition temperature:</b>	455 °C(CAS#67-56-1)
<b>Kinematic viscosity</b>	Not available
<b>Dynamic viscosity</b>	0.544 - 0.59mPa s(25.0°C) (CAS#67-56-1)
<b>Evaporation rate:</b>	Not available
<b>Flammability (solid, gas) :</b>	Not available
<b>Upper/lower flammability or explosive limits:</b>	Not available
<b>Vapor pressure:</b>	169.27 hPa(25 °C) (CAS#67-56-1)
<b>Density and/or relative density:</b>	0.79 - 0.8(CAS#67-56-1)
<b>Relative vapour Density:</b>	Not available
<b>Solubility (H<sub>2</sub>O) :</b>	Inclusion soluble in water
<b>Partition coefficient (n-octanol/water) :</b>	log Pow: -0.77(CAS#67-56-1)
<b>Auto-ignition temperature:</b>	Not available
<b>Decomposition temperature:</b>	Not available
<b>Viscosity:</b>	Not available
<b>Particle characteristics(solid):</b>	Not available
<b>Dissociation constant</b>	pKa:15.3(CAS#67-56-1)

## SECTION 10: Stability and reactivity

<b>Reactivity:</b>	The substance is stable under normal storage and handling conditions.
<b>Chemical stability:</b>	Material is stable under normal conditions
<b>Possibility of hazardous reactions:</b>	No dangerous reaction known under conditions of normal use.
<b>Conditions to avoid:</b>	Contact with incompatible materials. Heat and flame and spark. The extreme temperature and direct sunlight. Antistatic.
<b>Incompatible materials:</b>	Strong oxidizing agents, strong bases, strong acids etc.
<b>Hazardous decomposition products:</b>	May include carbon oxides.

## SECTION 11: Toxicological information

<b>Toxicological information:</b>	Occupational exposure to the substance or mixture may cause adverse effects.
<b>Acute toxicity:</b>	
<b>LD50(Oral, Rat):</b>	Not available.
<b>LD50(Dermal, Rabbit):</b>	Not available.
<b>LC50(Inhalation, Rat):</b>	Not available.
<b>Skin corrosion/Irritation:</b>	Not classified.

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<b>Serious eye damage/irritation:</b>	Not classified.
<b>Respiratory or skin sensitization:</b>	This product is not expected to cause skin sensitization.
<b>Germ cell mutagenicity:</b>	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
<b>Carcinogenicity:</b>	Not classifiable as to carcinogenicity to humans.
<b>Reproductive toxicity:</b>	This product is not expected to cause reproductive or developmental effects.
<b>STOT- single exposure:</b>	Causes damage to organs <Optic nerve (nervus opticus), central nervous system>.
<b>STOT-repeated exposure:</b>	May cause damage to organs <kidney> through prolonged or repeated exposure <Oral>.
<b>Aspiration hazard:</b>	Not an aspiration hazard.
<b>Other information</b>	Toxic if swallowed. Toxic in contact with skin. Harmful if inhaled.

## SECTION 12: Ecological information

## Toxicity:

Methyl alcohol(CAS#67-56-1)

Acute toxicity		Time	Species	Method	Evaluation	Remarks
LC50	15400 mg/L	96h	Fish	OECD 203	N/A	N/A
EC50	> 10000 mg/L	48h	Daphnia	OECD 202	N/A	N/A
EC50	ca. 22000 mg/L	96h	Algae	OECD 201	N/A	N/A

<b>Persistence and degradability:</b>	No data is available on the degradability of this product.
<b>Bioaccumulative potential:</b>	No data available.
<b>Mobility in soil:</b>	No data available.
<b>Other adverse effects:</b>	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

## SECTION 13: Disposal considerations

<b>Disposal methods:</b>	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. 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). Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.
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## 14. Transport information

## ADR

<b>UN number</b>	UN1950
<b>UN Proper shipping name</b>	AEROSOLS
<b>Transport hazard class(es)</b>	2.3
<b>Packing group</b>	-
<b>Labels required</b>	2.3

## IATA

<b>UN number</b>	UN1950
<b>UN Proper shipping name</b>	AEROSOLS
<b>Transport hazard class(es)</b>	2.3
<b>Packing group</b>	-

## IMDG

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**UN number** UN1950  
**UN Proper shipping name** AEROSOLS  
**Transport hazard class(es)** 2.3  
**Packing group** -  
**Environmental hazards**  
**Marine pollutant** No  
**EmS** F-D, S-U

## RID

**UN number** UN1950  
**UN Proper shipping name** AEROSOLS  
**Transport hazard class(es)** 2.3  
**Packing group** -  
**Labels required** 2.3

**Special precautions Read safety** Read safety instructions, SDS and emergency procedures before handling.  
**ADR; IATA; IMDG; RID**



**Transport in bulk according to Annex II** -  
**of MARPOL 73/78 and the IBC Code:**

## 15. Regulatory information

### Inventory status:

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
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
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 (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*A "Yes" indicates this product complies 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).

## 16. Other information

**Indication of changes:** Version 1.0 Amended by GHS rev 6

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**Preparation date:** 10-04-2017.  
**Revision date:** 10-04-2017.  
**Further information:** This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.  
**Notice to reader:** Employers should use this information only as a supplement to other information gathered by them, and should make independent judgment of suitability of this information to ensure proper use and protect the health and safety of employees.  
This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

**SAFETY DATA SHEET**



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