

Material Safety Data Sheet

1 Identification of the substance/preparation and of the company/undertaking

.Product details

.Trade name: Thermometers

.Trade code: 25284 / 25293 / 65293 / 25393 / 25294 / 25294B / 25294P / 25300 / 18315 / 25800

.End uses: Measure temperature

.MSDS for material: Ethyl alcohol

.Manufacturer/Supplier: NINGBO SPLASH POOL APPLIANCE CO.,LTD

WESTERN PART OF YINXIAN AVENUE, YINZHOU DISTRICT, NINGBO, CHINA

Tel: +86-574-8800 0999-608

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.Further information obtainable from: NINGBO SPLASH POOL APPLIANCE CO.,LTD

.Information in case of emergency: NINGBO SPLASH POOL APPLIANCE CO.,LTD

WESTERN PART OF YINXIAN AVENUE, YINZHOU DISTRICT, NINGBO, CHINA

.E-Mail: amy@splashpoolappliance.com

.Contact: Amy

2 Composition/information on ingredients

.Description: Mixture of substances listed below with additions

.Components Name:	CAS No.	Dangerous	Weight Percent (%)
Ethyl alcohol	64-17-5	F, N, Xi,Xn; R12-20/21/22-36/37/38-52	98%
Other	-- -- --		2%

3 Hazards identification

.NFPA ratings (scale 0 - 4)



Health = 2; Fire = 4; Reactivity = 1

.HMIS-ratings (scale 0 - 4)

HEALTH	2
FIRE	4
REACTIVITY	1

Health = 2; Fire = 4; Reactivity = 1



.Hazard description:



Xi:Irritant Xn:Harmful

.Information concerning particular hazards for human and environment:

The product has to be labeled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.



N:Environmentally dangerous

.Information concerning particular hazards for human and environment:

The substance may be hazardous to the environment and the water body should be given special attention.



F: Flammable

.Information concerning particular hazards for human and environment:

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version. R 12 Extremely flammable.

.Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data

.Routes of Entry: Skin contact, Eye contact, Inhalation, Ingestion.

.Potential Acute Health Effects:

.Eyes: Slightly hazardous by the following route of exposure: of eye contact (irritant).

.Skin: No known acute effects of this product resulting from skin contact in a short time.but long-term contact skin can cause skin chapped and dermatitis.

.Inhalation: Inhalation vapor or mist of this product will make respiratory tract have a stimulating .

.Ingestion: Products main ingredient is alcohol, a large number of drinking will lead to alcoholism. Alcoholism is divided into excitement, hypnosis, anesthesia, asphyxia four stages, short-term symptoms include headaches, dizziness, fatigue, irritability, tremor, nausea and so on. Human long-term intake of alcohol can cause polyneuropathy, chronic gastritis, fatty liver, cirrhosis, myocardial damage and blindness

.Potential Chronic Health Effects:

.CARCINOGENIC EFFECTS: Not available.

.MUTAGENIC EFFECTS: Not available.

.TERATOGENIC EFFECTS: Not available.

.Medical Conditions Aggravated by Overexposure: There is no known effect from chronic exposure to this product. Repeated or prolonged exposure is not known to aggravate any medical condition.

.Overexposure/ Signs/ Symptoms: No information available.

4 First aid measures

- .After inhalation: Supply fresh air; consult doctor in case of complaints.*
- .After skin contact: Timely wash with water .*
- .After eye contact: Immediately flush eyes with plenty of water for a few minutes,occasionally lifting the upper and lower eyelids. Get medical aid immediately.*
- .After swallowing: If symptoms persist consult doctor.*
- .After first aid, get appropriate in-plant , paramedic, or community medical support.*

5 Fire-fighting measures

- .Protective equipment:Wear fully protective suit.Mouth respiratory protective device.*
Do not inhale explosion gases or combustion gases.
- .Extinguishing Media: CO2, sand, extinguishing powder. Do not use water.*
- .Auto ignition Temperature: 363 °C*
- .Flash Point: 12 °C*
- .Special fire & explosion hazards: Dense smoke emitted when burned without sufficient oxygen. Possible dust explosion if fines accumulate. Wear standard fire fighting attire.*
- .Unusual Fire or Explosion Hazards: None.*

6 Accidental release measures

- . Person-related safety precautions: Wear protective equipment. Keep unprotected persons away.*
- . Measures for environmental protection:Do not allow product to reach sewage system or any water course.*
Inform respective authorities in case of seepage into water course or sewage system. Do not allow to enter sewers/ surface or ground water.
- . Measures for cleaning/collecting:*
- .Small leak: Evaporate or wipe with a towel.*
- .Much leak: Isolation accident area to prevent the leak products to be contaminated ,and then to recycling collection the leak products..*

7 Handling and storage

- .Information for safe handling: Store in cool, dry place in tightly closed receptacles.*
Ensure good ventilation/exhaustion at the workplace.
- .Information about fire - and explosion protection: Keep ignition sources away - Do not smoke.*
Protect against electrostatic charges.
- .Storage:*
 - . Requirements to be met by storerooms and receptacles: Store in a cool location.*
 - . Information about storage in one common storage facility: Store away from flammable substances.*
 - . Further information about storage conditions:*
Keep container tightly sealed.
Store in cool, dry conditions in well sealed receptacles.

8 Exposure controls/personal protection

- .Ventilation and Engineering controls:** No special ventilation and engineering controls are required when using this products , handling of these products need keep good ventilation.
- .Respiratory Protection:** No special respiratory protection is required for use of these products. If respiratory protection is needed, use only protection authorized in the U.S. Federal OSHS Standard, applicable U.S. State regulations, or the Canadian CSA standard.
- .Body Protection:** No special protective clothing is required.
- .Protective Gloves:** Unnecessary,when need choose rubber acid-resistant gloves or other insulated gloves.
- .Eye Protection:** Unnecessary ,When necessary wear Chemical goggles or face shield.

9 Physical and chemical properties

.General Informatio	
.Form:	Liquid
.Color:	Transparent
.Odor:	Alcohol
.Change in condition	
.Melting point/Melting range:	-114 °C
.Boiling point/Boiling range:	78 °C
.Flash point:	12 °C
.Self-igniting:	363 °C
.Danger of explosion:	Not available
.Density:	
.Relative density:	0.79(Water=1)
.Vapor density:	Not available
.Evaporation rate	Down 0 °C Slow,above 0 °C fast
.Solubility in/Miscibility with	
.Water:	Miscible
.PH-Value:	Not available
.Viscosity:	
.Dynamic:	Not available

10 Stability and reactivity

- .Stability:** The product is not stable, volatile at room temperature.
- .Chemical Reactions:** Reactions with strong oxidizing agents, acids, anhydride, alkali metals, amines.
- .Hazardous Decomposition Products:** The following combustion products may be generated: carbon dioxide, carbon monoxide, water vapor, and trace volatile organic compounds.
- .Hazardous Polymerization:** Hazardous polymerization will occur.

11 Toxicological information

.Toxicity to Animals:

LD/LC50 values relevant for classification:

64-17-5 Ethyl alcohol	Oral	LD50 : 7060 mg/kg (rat)	LD50 : 3450 mg/kg (Mouse)
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.Chronic Effects on Humans: CARCINOGENIC EFFECTS: Classified NONE by NTP, NONE by OSHA. 3 (Not classifiable for human.) by IARC.

.Other Toxic Effects on Humans:

.on the skin: Irritating effect possible

.on the eye: Irritating effect possible

12 Ecological information

Information about elimination (persistence and degradability): Heavily removable from water

Behaviour in environmental systems: Mobility and bioaccumulation potential: May be accumulated in organism

Ecotoxicological effects: Not available

General notes: Water hazard class 3 (German Regulation) (Self-assessment): Hazardous for water.

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

13 Disposal considerations

.Product: Must be disposed of in accordance with applicable Federal, state and local regulations.

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

.Uncleaned packaging: Recommendation Disposal must be made according to official regulations.

14 Transport information

.DOT Proper Shipping Name: FLAMMABLE LIQUID, N.O.S.

.ADR/RID class: 3 Flammable liquids.

.UN Number: 1170

.Packing Group: II

.Hazard label: 3

.Limited quantities (LQ): LQ4

.Transport category: 2

.USCG Proper Shipping Name: FLAMMABLE LIQUID, N.O.S.

.Marine Pollutant: Yes.

.Hazardous Substance Reportable Quantity: Not available.

.Special Provisions for Transport: Not applicable.

15 Regulatory information

.HCS Classification: This product is not a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

.U.S. Federal Regulation:

.TSCA inventory: All components are listed or exempted.

.SARA 301/302/303: No chemicals in this product are listed as extremely hazards substances in 40 CFR 355, Emergency Planning And Notification

.SARA 304: No chemicals in this product require reporting under the requirement of 40 CFR 355, Emergency Planning And Notification(SARA extremely hazardous substances listed in Appendix A to Part 355 or CERCLA hazardous substances listed in Table 302.4 of 40 CFR Part 302).

.SARA 313: This product contains no chemicals in excess of the applicable de minimis concentration that are subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372 (Table 372.65).

Specific state and local regulations should be consulted to determine if there are any additional requirements. Because many states and localities have added requirements or incorporated the Federal contents in their own forms, Tier I & II forms should be obtained from the State Emergency Response Commission (SERC).

.International Regulations

. Labelling according to EU guidelines

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

. Risk phrases:

12 Extremely flammable.

20/21/22 Harmful by inhalation, in contact with skin and if swallowed.

36/37/38 Irritating to eyes, respiratory system and skin.

52 Harmful to aquatic organisms.

. Safety phrases:

7 Keep container tightly closed.

16 Keep away from sources of ignition.

46 If swallowed, seek medical advice immediately and show this container or label.

16 Other information

The contents and format of this MSDS are in accordance with ISO Commission Directive ISO11014-1:1994.

DISCLAIMER OF LIABILITY

The information in this MSDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handing, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may be applicable.

.Emergency Telephone Number: +86-138 8449 7596

.Department issuing MSDS: NINGBO SPLASH POOL APPLIANCE CO.,LTD

.Information: Amy

*****The End*****