

SAFETY DATA SHEET

3271 ISOPROPYL ALCOHOL 70%
EN/SU – v5.0



SECTION 1. IDENTIFICATION

Product Name: Isopropyl Alcohol 75% Tech Grade
Product Code: 3271
SDS Date: 01/01/2023

Intended Use

Is used as an ingredient in alcohol swabs and alcohol wipes for wound cleaning, it is found in hand sanitizers, and in ear drops to prevent swimmer's ear. Isopropyl alcohol can also be found in cleaning supplies, paint thinners and perfumes. In the pharmaceutical industry, isopropyl alcohol may be used in small, safe quantities in capsule or tablet manufacturing.

Manufacturer Details



Smarkchem Industries Inc.
8636 Otis St, South Gate CA, 90280
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Product Information: +1(323)268-8184

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Transportation emergency (CHEMTREC):

1-800-424-9300

SECTION 2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

This product is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

GHS Classification

Flammable Liquids (Category 2)

Eye irritation (Category 2A)

Specific target organ toxicity (Category 3)

GHS Labeling

Pictograms



Signal word: **DANGER**

Hazard statements

H226 Flammable Liquid and Vapor

H319 Causes serious eye irritation.

Precautionary statements

P210 Keep away from heat / sparks / open flames / hot surfaces. - No smoking.

P233 Keep container tightly closed.

P241 Use explosion-proof electrical / ventilating / lighting / equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P280 Wear protective gloves / eye protection / face protection.

Precautionary Statements - Response

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical advice/attention.

Precautionary Statements - Storage

P403 + P235 Store in a well-ventilated place. Keep cool.

Precautionary Statements - Disposal

P501 Dispose of contents/ container to an approved waste disposal plant.

Risk Statements

R32 + R37 + R38 Irritating to eyes, respiratory system and skin.

R11 Highly Flammable.

R67 Vapor may cause drowsiness and dizziness.

Safety Statements

S7 Keep container tightly closed.

S16 Keep away from sources of ignition. No smoking.

S24 + S25 Avoid contact with skin and eyes.

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Other Hazards

Vapors may form explosive mixture with air.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredients

CAS-No	Chemical Name	Concentration
67-63-0	Isopropanol Alcohol	>= 75%

Non-Hazardous Ingredients

CAS-No	Chemical Name	Concentration
7732-18-5	Water	>= 25%

Any concentration shown as a range is due to batch variation.

SECTION 4. FIRST AID MEASURES

GENERAL ADVICE: In the case of accident or if you feel unwell, seek medical advice immediately. When symptoms persist or in all cases of doubt seek medical advice.

EYE CONTACT: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lens, if worn. Get medical attention.

SKIN CONTACT: Wash skin with soap and water. Remove contaminated clothing and rinse with plenty of running water. Get medical attention if symptoms occur.



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INHALATION: Remove to fresh air. If symptoms persist, call a physician, and get medical attention immediately if symptoms occur.

INGESTION: Do NOT induce vomiting. Gargle and seek medical advice. Most important acute and delayed symptoms/effects: / where necessary, note seek immediate medical attention and special treatment required. Get medical attention if symptoms occur. Rinse mouth thoroughly with water.

MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND DELAYED

Most Important Symptoms and Effects: Causes serious eye irritation.

NOTES TO PHYSICIAN

Treat symptomatically and supportively.

PROTECTION OF FIRST AIDERS

First Aid responders should pay attention to self-protection and use the recommended personal protective equipment when the potential for exposure exists.

SECTION 5. FIREFIGHTING MEASURES

Suitable Extinguishing Media

1. Water spray
2. Alcohol-resistant foam
3. Dry chemical
4. Carbon dioxide (CO₂)

Unsuitable extinguishing media

High volume water jet

Specific hazards arising from the chemical

Do not use a solid water stream as it may scatter and spread fire. Flash back possible over considerable distance. Vapors may form explosive mixtures with air. Exposure to combustion products may be a hazard to health.

Hazardous Combustion Products

Carbon oxides.

Specific extinguishing methods

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to do so. Evacuate area.

Special protective equipment for fire-fighters

In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

Unusual explosion and fire procedures

Isolate from oxidizers, heat, sparks, electric equipment & open flame. Closed containers may explode if exposed to extreme heat. Applying to hot surfaces requires special precautions. Empty container very hazardous! Continue all label precautions!

SECTION 6. ACCIDENTAL RELEASE MEASURES

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PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Personal precautions

protective equipment and emergency procedures: avoid inhalation of steam, avoid contact with skin and eyes. Use protective equipment to control personnel contact.

ENVIRONMENTAL PRECAUTIONS

Environmental precautions

No smoking, open flame or ignition source. Enhance ventilation. Prevent leakage if it is safe. Keep from entering storm sewers and ditches which lead to waterways, and if necessary, call the local fire or police department for immediate emergency assistance.

METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

Small leakage: collect and adsorb small amounts of leakage with vermiculite or another adsorbent. Erasure. Collect residues and store in flammable waste containers.

Large leakage: steam can be dispersed/absorbed by spray or mist. Use sand, soil, or vermiculite to absorb leaks. Use spark-free shovels and explosion-proof equipment only. Collect recyclable products in labeled containers for recycling. Use sand, soil, or vermiculite to absorb the remaining product. Collect solid residues and seal them in labeled drums for disposal. Flush the leak area and prevent it from entering the lower water body.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with eyes. Do not eat, drink or smoke when using this product. Prevent the generation of static electricity. No plastic buckets. When handling operations, make use of tools that do not generate sparks. Avoid contact with incompatible materials.

Technical Measures

See Engineering measures under EXPOSURE CONTROLS / PERSONAL PROTECTION section.

Local/Total Ventilation

Use with local exhaust ventilation. Use only in an area equipped with explosion proof exhaust ventilation. Keep away from discordant materials and store in a cool, dry, well-ventilated place.

Advice on Safe Handling

Do not breathe vapors or spray mist. Do not swallow. Do not get in eyes. Avoid prolonged or repeated contact with skin. Handle in accordance with good industrial hygiene and safety practice. Non-sparking tools should be used. Keep container tightly closed. Keep away from heat and sources of ignition. Take precautionary measures against static discharges. Take care to prevent spills, waste and minimize release to the environment.



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CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES**Storage**

Keep in properly labeled containers. Keep tightly closed.
Keep in a cool, well-ventilated place. Store in accordance with the national regulations. Keep away from heat and sources of ignition.

Incompatible Products (Material to Avoid)

Do not store with the following product types:

- Strong oxidizing agents
- Organic peroxides
- Flammable solids
- Pyrophoric liquids
- Pyrophoric solids
- Self-heating substances and mixtures
- Substances and mixtures which in contact with water emit flammable gases
- Explosives
- Gases

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Exposure Guidelines**

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region-specific regulatory bodies.

CAS-No	Chemical	EINECS#	TWA(OSHA)	TLV (ACGIH)
67-63-0	Isopropanol Alcohol	200-661-7	400 ppm	200 ppm A4
7732-18-5	Water	231-791-2	None	None

This product contains no EPA Hazardous Air Pollutants (HAP) in amounts > 0.1%.

RESPIRATORY EXPOSURE CONTROLS

Maintain airborne contaminant concentrations below exposure limits given above. If respiratory protection is needed, use only protection authorized in 29 CFR 1910.134, European Standard EN 149, or applicable State regulations. If adequate ventilation is not available or there is potential for airborne exposure above the exposure limits, a respirator may be worn up to the respirator exposure limitations, check with respirator equipment manufacturer's recommendations/limitations. For a higher level of protection, use positive pressure supplied air respiration protection or Self-Contained Breathing Apparatus or if oxygen levels are below 19.5% or are unknown.

EMERGENCY OR PLANNED ENTRY INTO UNKNOWN CONCENTRATIONS OR IDLH CONDITIONS

Positive pressure, full-face piece Self-Contained Breathing Apparatus; or positive pressure, full-face piece Self-Contained Breathing.

Apparatus with an auxiliary positive pressure Self-Contained Breathing Apparatus.

VENTILATION

Local Exhaust: Necessary
Mechanical (General): Necessary
Special: None
Other: None

Please refer to ACGIH document, "Industrial Ventilation, A Manual of Recommended Practices", most recent edition, for details.

EYE PROTECTION

Splash goggles or safety glasses. Face-shields are recommended when the operation can generate splashes, sprays or mists.

HAND PROTECTION

Wear appropriate impervious gloves for routine industrial use. Use impervious gloves for spill response, as stated in Section 6 of this SDS (Accidental Release Measures).

WORK & HYGIENIC PRACTICES

Provide readily accessible eye wash stations & safety showers. Wash at end of each shift & before eating, smoking or using the toilet. Remove clothing that becomes contaminated. Destroy contaminated leather articles. Launder or discard contaminated clothing.

PERSONAL PROTECTIVE EQUIPMENT**Respiratory Protection**

General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.

HAND PROTECTION**Material**

Impervious gloves. Flame retardant gloves.

Remarks

Choose gloves to protect hands against chemicals depending on the concentration specific to place of work. Breakthrough time is not determined for the product. Change gloves often! For special applications, we recommend clarifying the resistance to chemicals of the protective gloves with the glove manufacturer. Wash hands before breaks and at the end of workday.

EYE PROTECTION

Wear the following personal protective equipment: Safety goggles.

SKIN AND BODY PROTECTION

Select appropriate protective clothing based on chemical resistance data and an assessment of the local exposure potential. Wear the following personal protective equipment: Flame retardant antistatic protective clothing.



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Skin contact must be avoided by using impervious protective clothing (gloves, aprons, boots, etc).

HYGIENE MEASURES

Ensure that eye flushing systems and safety showers are located close to the working place. When using do not eat, drink or smoke. Wash contaminated clothing before re-use.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear
Physical state	Liquid
Color	None
Odor	No data available
Odor Threshold	No data available

Property	Values
pH	No Applicable
Melting / freezing point	No data available
Boiling point / boiling range	> 35 °C
Flash Point	< 23 °C
Evaporation Rate	0.667
Flammability Classification	Class 1B
Flammability (solid, gas)	No data available
Flammability Limit in Air	No data available
Upper flammability limit	No data available
Lower flammability limit	No data available
Vapor pressure	No data available
Vapor density	No data available
Specific Gravity	No data available
Water Solubility	Soluble
Solubility in other solvents	No data available
Partition coefficient: n-octanol/water	No data available
Autoignition temperature	No data available
Dynamic viscosity	No data available
Explosive properties	Not explosive
Soluble	Miscibility

SECTION 10. STABILITY AND REACTIVITY**Reactivity**

Not classified as a reactivity hazard.

Chemical stability

Stable under normal conditions.

Possibility of Hazardous Reactions

Flammable liquid and vapor.

Vapors may form explosive mixture with air.

Can react with strong oxidizing agents.

Conditions to avoid

Mars, high temperature, static electricity.

Incompatible materials

Oxidizing agent, flammable or combustible.

Hazardous Decomposition Products

Carbon dioxide (CO₂), other typical pyrolysis products produced by the combustion of organic matter.

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SECTION 11. TOXICOLOGICAL INFORMATION**Exposure:**

Inhalation, ingestion, percutaneous absorption, eye contact.

Symptoms with physical, chemical and toxicological characteristics: / acute toxic effects:

Inhalation of vapors may cause drowsiness and dizziness. Accidental ingestion of this substance may be harmful. Skin contact with this product can damage health; absorption can lead to a systemic reaction.

The substance can cause serious eye damage if it enters the eye. Chronic or long-term toxic effects:

Long-term inhalation of solvents can cause neurological damage and liver and blood disorders.

CHRONIC HAZARDS CANCER, REPRODUCTIVE & OTHER CHRONIC HAZARDS:

This product has no carcinogens listed by IARC, NTP, NIOSH, OSHA or ACGIH, as of this date, greater or equal to 0.1%.

IRRITANCY OF PRODUCT: This product is irritating to contaminated tissue.

SENSITIZATION TO THE PRODUCT: No component of this product is known to be a sensitizer.

MUTAGENICITY: This product is not reported to produce mutagenic effects in humans.

EMBRYOTOXICITY: This product is not reported to produce embryo toxic effects in humans.

TERATOGENICITY: This product is not reported to produce teratogenic effects in humans.

REPRODUCTIVE TOXICITY: This product is not reported to cause reproductive effects in humans.

A mutagen is a chemical which causes permanent changes to genetic material (DNA) such that the changes will propagate through generational lines. An embryo toxin is a chemical which causes damage to a developing embryo (such as: within the eight weeks of pregnancy in humans), but the damage does not propagate across generational lines. A teratogen is a chemical which causes damage to a developing fetus, but the damage does not propagate across generational lines. A reproductive toxin is any substance which interferes in any way with the reproductive process.

MAMMALIAN TOXICITY INFORMATION

MATERIAL: Isopropanol

CAS#: 67-63-0

EINECS#: 200-661-7

LOWEST KNOWN LETHAL DOSE DATA:

LOWEST KNOWN LD50 (ORAL) 5840.0 mg/kg(Rats)

MATERIAL: Isopropanol

CAS#: 67-63-0

EINECS#: 200-661-7



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LOWEST KNOWN LC50 (VAPORS)

1600 ppm (Rats)

MATERIAL: Isopropanol

CAS#: 67-63-0

EINECS#: 200-661-7

LOWEST KNOWN LD50 (SKIN)

16400.0 mg/kg (Rabbits)

SECTION 12. ECOLOGICAL INFORMATION

ALL WORK PRACTICES MUST BE AIMED AT ELIMINATING ENVIRONMENTAL CONTAMINATION. EFFECT OF MATERIAL ON PLANTS OR ANIMALS:

This product may be harmful or fatal to plant and animal life if released into the environment. Refer to Section 11 (Toxicological Information) for further data on the effects of this product's components on test animals.

EFFECT OF MATERIAL ON AQUATIC LIFE:

The most sensitive known aquatic group to any component of this product is: Chub 1000 ppm or mg/L (24-hour exposure). Keep out of sewers and natural water supplies.

MOBILITY IN SOIL

This material is a mobile liquid.

DEGRADABILITY

This product is completely biodegradable.

ACCUMULATION

This product does not accumulate or biomagnify in the environment.

SECTION 13. DISPOSAL CONSIDERATIONS**Waste treatment methods****Disposal methods**

Dispose of in accordance with federal, state and local regulations.

Contaminated Packaging

Do not reuse empty containers. Dispose of in accordance with federal, state and local regulations.

Processing use or contamination may change the waste management options. Recycle / dispose of observing national, regional, state, provincial and local health, safety & pollution laws. If in doubt, contact appropriate agencies.

Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not burn, or use a cutting torch on, the empty drum.

SECTION 14. TRANSPORT INFORMATION**International transport regulations:****IMDG (Sea transport)**

UN number: 1219
Proper shipping name: Isopropanol Alcohol Solution
Hazard Class: 3
Subsidiary Hazard Class: Not applicable.
Packing Group: II
Regulation: Water Transportation

ICAO/IATA (Air transport)

UN number: 1219
Proper shipping name: Isopropanol Alcohol Solution
Hazard Class: 3
Subsidiary Hazard Class: Not applicable.
Packing Group: II
Regulation: Air Transportation

DOT (USA)

UN number: 1219
Proper shipping name: Isopropanol Alcohol Solution
Hazard Class: 3
Subsidiary Hazard Class: Not applicable.
Packing Group: II
Regulation: Land Transportation

TDG (CANADA)

UN number: 1219
Proper shipping name: Isopropanol Alcohol Solution
Hazard Class: 3
Subsidiary Hazard Class: Not applicable.
Packing Group: II
Regulation: Land Transportation

UNRTDG

UN number: 1219
Proper shipping name: Isopropanol Alcohol Solution
Hazard Class: 3
Subsidiary Hazard Class: Not applicable.
Packing Group: II

Domestic Regulation**49CFR**

UN number: 1219
Proper shipping name: Isopropanol Alcohol Solution
Hazard Class: 3
Subsidiary Hazard Class: Not applicable.
Packing Group: II
Labels: FLAMMABLE LIQUID
ERG Code: 127
Marine Pollutant: No

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable for product as supplied.



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SECTION 15. REGULATORY INFORMATION

**EPCRA - Emergency Planning and Community Right-to-Know
CERCLA Reportable Quantity**

This material does not contain any components with a CERCLA RQ.

**SARA 304 Extremely Hazardous Substances Reportable
Quantity**

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards

Fire Hazard

Acute Health Hazard

SARA 302

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313

The following components are subject to reporting levels established by SARA Title III, Section 313:

US State Regulations**Pennsylvania/New Jersey Right To Know**

CAS-No	Chemical Name	Concentration
67-63-0	Isopropanol Alcohol	>= 75%
7732-18-5	Water	>= 25%

California Prop 65

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

The ingredients of this product are reported in the following inventories:

AICS: All ingredients listed or exempt.

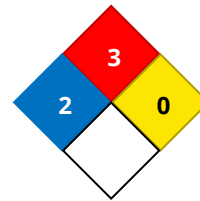
Inventories

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), NECSI (Taiwan), TSCA (USA)

SECTION 16. OTHER INFORMATION

HMIZ HAZARD ID

HEALT HAZARD	2
FLAMABILITY	3
PHYSICAL HAZARD	0
PERSOANL PROTECTION	F

NFPA**HAZARD RATING:**

0 – Minimal
1 – Slight
2 – Moderate
3 – Serious
4 – Severe
RNP - Rating not possible
*Chronic health effect

FLAMMABILITY
HEALTH
REACTIVITY
SPECIAL HAZARD

HMIS Letter	Required Equipment
A	Safety glasses
B	Safety glasses, gloves
C	Safety glasses, gloves, protective apron
D	Face shield, gloves, protective apron
E	Safety glasses, gloves, dust respirator
F	Safety glasses, gloves, protective apron, dust respirator
G	Safety glasses, gloves, vapor respirator.
H	Splash glasses, gloves, protective apron, vapor respirator
I	Safety glasses, gloves, dust respirator, vapor respirator
J	Safety glasses, gloves, protective apron, dust respirator, vapor respirator.
K	Air line mask or hood, gloves, full suit, boots

PREPARED BY:

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www.smarmcompany.com**CREATED BY:** Omar Villalobos**REVISION DATE:** 04/01/2020**NEXT REVISION DATE:** 04/01/2022**REVISION NOTE:** No information available.**DISCLAIMER:**

Smarm Company expressly disclaims all express or implied warranties of merchantability and fitness for a particular purpose, with respect to the product or information provided herein, and shall under no circumstances be liable for incidental or consequential damages.

Do not use ingredient information and/or ingredient percentages in this SDS as a product specification. For product specification information refer to a product specification sheet and/or a certificate of analysis. These can be obtained from your local Smarm Company sales office in California.

All information appearing herein is based upon data obtained from the manufacturer and/or recognized technical sources. While the information is believed to be accurate, Smarm Company makes no representations as to its accuracy or sufficiency. Conditions of use are beyond Smarm Company control and therefore users are responsible to verify this data under their own operating conditions to determine whether the product is suitable for their particular purposes and they assume all risks of their use, handling, and disposal of the product, or from the publication or use of, or reliance upon, information contained herein.

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



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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.

GLOSSARY

CGIH	American Conference of Governmental Industrial Hygienists
ADR	Accord European relative au transport international des marchandises Dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
AICS	Australian Inventory of Chemical Substances
AOEL	Acceptable Operator Exposure Level
AOX	Absorbable organic halogen compounds
ATE	Acute Toxicity Estimate according to Regulation (EC) 1272/2008 (CLP)
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures)
DSL/NDSL	Canadian Domestic Substances List/Non-Domestic Substances List
EC	European Community
ECL	Existing Chemicals List
EEC	European Economic Community
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
EN	European Norms
ENCS	Inventory of Existing and New Chemical Substances
ERC	Environmental Release Categories
EU	European Union
IATA	International Air Transport Associations (Transport by Air)
IECSC	Inventory of Existing Chemical Substances in China
IMCDG	International Maritime Code for Dangerous Goods (Transport by Sea)
LC	Lethal Concentration
LC50	Lethal Concentration 50 Percent Kill
LCLo	Lowest Published Lethal Concentration
LD	Lethal Dose of a Chemical
LD50	Lethal Dose, 50% Kill
LDLo	Lethal Dose Low
LQ	Limited Quantities
MARPOL	International Convention Forth Prevention of Marine Pollution from Ships
NDSL	Non-Domestic Substances List
n.a.	Not Applicable
n.c.	Not Checked
n.d.a.	No Data Available
OECD	Organization for Economic Co-Operation and Development
PC	Chemical Product Category
PICCS	Philippine Inventory of Chemicals and Chemical Substances
PROC	Process Category
REACH	Registration, Evaluation, Authorization and Restriction of Chemicals (REGULATION (EC) No 1907/2006 Concerning the Registration, Evaluation, Authorization and Restriction of Chemicals)
REACH-IT List-No.	9xx-xxx-x No. is automatically assigned, e.g. to pre-registrations without a CAS No. or other numerical identifier. List Numbers do not have any legal significance, rather they are purely technical identifiers for processing a submission via REACH-IT
RID	Reglement concerning 1e transport International ferroviaire de marchandises Dangereuses (Regulation concerning the International Carriage of Dangerous Goods by Rail)
TSCA	Toxic Substances Control Act and Federal Facilities
SU	Sector of use

End of Safety Data Sheet