

SAFETY DATA SHEET

1. Identification

Identification

Product name: ICEMATIC™ S 68C

Additional identification

Chemical name: Mixture

Recommended use and restriction on use

Recommended use: Refrigeration Lubricants.

Restrictions on use: None identified.

Details of the supplier of the safety data sheet

Supplier

Company Name: CPI FLUID ENGINEERING
A DIV. OF THE LUBRIZOL CORPORATION
Address: 2300 JAMES SAVAGE ROAD
MIDLAND, MI 48642
US
Telephone: 989-496-3780

Emergency telephone number:

FOR TRANSPORT EMERGENCY CALL CHEMTREC (+1)703 527 3887, OR WITHIN USA 800 424 9300

2. Hazard(s) identification

Hazard Classification

Health Hazards

Acute toxicity (Inhalation - dust and mist) Category 4

Unknown toxicity

Acute toxicity, inhalation, vapor 95.1 %

Acute toxicity, inhalation, dust or mist 92.2 %

Label Elements:

Hazard Symbol:



Signal Word: Warning

Hazard Statement: Harmful if inhaled.

Precautionary Statements:

Prevention: Avoid breathing dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area.

Response: IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.

Other hazards which do not result in GHS classification: None identified.

3. Composition/information on ingredients

Chemical name	CAS number	Percent by Weight
tert-Butylphenyl diphenyl phosphate	Confidential	1 – 5%
Triphenyl phosphate	115-86-6	1 – 5%

Trade secret information: A specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures

Ingestion: Treat symptomatically. Get medical attention.

Inhalation: Remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.

Skin Contact: Wash with soap and water. If skin irritation occurs, get medical attention.

Eye contact: Any material that contacts the eye should be washed out immediately with water. If easy to do, remove contact lenses.

Most important symptoms/effects, acute and delayed

Symptoms: See section 11.

Indication of immediate medical attention and special treatment needed

Treatment: Treat symptomatically.

5. Fire-fighting measures

General Fire Hazards: No unusual fire or explosion hazards noted.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media: CO₂, dry chemical, foam, water spray, water fog.

Unsuitable extinguishing media: Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical: A solid stream of water will spread the burning material. Material creates a special hazard because it floats on water. See section 10 for additional information.

Special protective equipment and precautions for firefighters

Special fire fighting procedures: No data available.

Special protective equipment for fire-fighters: Recommend wearing self-contained breathing apparatus.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: Ventilate closed spaces before entering them. Keep upwind. Keep unauthorized personnel away. See Section 8 of the SDS for Personal Protective Equipment.

Environmental Precautions: Avoid release to the environment. Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so.

Methods and material for containment and cleaning up: Dike far ahead of larger spill for later recovery and disposal. Pick up free liquid for recycle and/or disposal. Residual liquid can be absorbed on inert material. Stop the flow of material, if this is without risk. Prevent entry into waterways, sewer, basements or confined areas.

7. Handling and storage

Precautions for safe handling: Avoid breathing dust/fume/gas/mist/vapors/spray. Observe good industrial hygiene practices. Use only in well-ventilated areas. Provide adequate ventilation. Wear appropriate personal protective equipment. Avoid environmental contamination.

Maximum Handling Temperature: 70 °C 158 °F

Conditions for safe storage, including any incompatibilities: Store away from incompatible materials. See section 10 for incompatible materials.

Maximum Storage Temperature: 45 °C 113 °F

8. Exposure controls/personal protection

Control Parameters:

Occupational Exposure Limits

Chemical name	Type	Exposure Limit Values	Source
Triphenyl phosphate	PEL	3 mg/m ³	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (02 2006)
Triphenyl phosphate	TWA	3 mg/m ³	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989)
Triphenyl phosphate	TWA	3 mg/m ³	US. ACGIH Threshold Limit Values, as amended (02 2012)
Triphenyl phosphate	REL	3 mg/m ³	US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2010)

Appropriate engineering controls:

The use of closed systems is strongly recommended for the handling and transfer of undiluted material. No special requirements under ordinary conditions of use and with adequate ventilation.

Individual protection measures, such as personal protective equipment

General information:

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. Supplementary local exhaust ventilation, closed systems, or respiratory and eye protection may be needed in special circumstances, such as poorly ventilated spaces, heating, evaporation of liquids from large surfaces, spraying of mists, mechanical generation of dusts, drying of solids, etc.

Eye/face protection:

If contact is likely, safety glasses with side shields are recommended.

Skin Protection

Hand Protection:

No data available.

Other:

No data available.

Respiratory Protection:

A respiratory protection program compliant with all applicable regulations must be followed whenever workplace conditions require the use of a respirator. Under normal use conditions, respirator is not usually required. Use appropriate respiratory protection if exposure to dust particles, mist or vapors is likely. Use self-contained breathing apparatus for entry into confined space, for other poorly ventilated areas and for large spill clean-up sites.

Hygiene measures:

Observe good industrial hygiene practices.

9. Physical and chemical properties

Appearance

Physical state:

liquid

Form:

liquid

Color:

Colorless to yellow

Odor:

Characteristic

Odor threshold:

No data available.

pH:	Not applicable
Freezing point:	No data available.
Boiling Point:	No data available.
Flash Point:	345 °F (174 °C) (Cleveland Open Cup)
Evaporation rate:	No data available.
Flammability (solid, gas):	No data available.
Upper/lower limit on flammability or explosive limits	
Flammability limit - upper (%):	No data available.
Flammability limit - lower (%):	No data available.
Explosive limit - upper:	No data available.
Explosive limit - lower:	No data available.
Vapor pressure:	No data available.
Vapor density:	No data available.
Relative density:	0.955 60.1 °F (15.6 °C)
Solubility(ies)	
Solubility in water:	Insoluble in water
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	No data available.
Auto-ignition temperature:	No data available.
Decomposition temperature:	No data available.
Viscosity:	52 mm ² /s

10. Stability and reactivity

Reactivity:	No data available.
Chemical Stability:	Material is stable under normal conditions.
Possibility of hazardous reactions:	Will not occur.
Conditions to avoid:	Not determined.
Incompatible Materials:	None known, avoid contact with reactive chemicals.
Hazardous Decomposition Products:	Thermal decomposition or combustion may generate smoke, carbon monoxide, carbon dioxide, and other products of incomplete combustion.

11. Toxicological information

Information on likely routes of exposure

Inhalation:	Harmful if inhaled.
Ingestion:	No data available.
Skin Contact:	No data available.
Eye contact:	No data available.

Information on toxicological effects

Acute toxicity

Oral

Product: Not classified for acute toxicity based on available data. Butylated triphenyl phosphate may produce paralysis if ingested. Initial symptoms of overexposure are nausea, diarrhea and abdominal pain followed by soreness of lower legs and numbness of toes.

Dermal

Product: Not classified for acute toxicity based on available data. Prolonged or widespread contact with butylated triphenyl phosphate can result in the absorption of harmful amounts (note toxicity in other sections).

Inhalation

Product: ATEmix (, 4 h): 2 - 5 mg/l.Dusts, mists and fumes

Skin Corrosion/Irritation:

Product: Remarks: Not classified as a primary skin irritant. Prolonged or repeated contact may cause irritation.

Serious Eye Damage/Eye Irritation:

Product: Remarks: Not classified as a primary eye irritant.

Respiratory sensitization:

No data available

Skin sensitization:

Triphenyl phosphate (Read across) May cause skin sensitization in sensitive individuals.

Specific Target Organ Toxicity - Single Exposure:

No data available

Aspiration Hazard:

No data available

Other effects:

Product: This material contains triphenyl phosphate which is a cholinesterase inhibitor in humans. Common signs of poisoning are intestinal cramps, tightness in the chest, blurred vision, headache, diarrhea, decrease in blood pressure and salivation. See First Aid Section.

Chronic Effects

Carcinogenicity:

No data available

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogenic components identified

US. National Toxicology Program (NTP) Report on Carcinogens:

No carcinogenic components identified

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended:

No carcinogenic components identified

Germ Cell Mutagenicity:

tert-Butylphenyl diphenyl phosphate

This material has not exhibited mutagenic or genotoxic potential in laboratory tests.

Triphenyl phosphate

This material has not exhibited mutagenic or genotoxic potential in laboratory tests.

Reproductive toxicity:

No data available

Specific Target Organ Toxicity - Repeated Exposure:

No data available

12. Ecological information

Ecotoxicity

Fish

tert-Butylphenyl diphenyl phosphate

LC 50 (Not reported, 4 d): 13.7 mg/l

Triphenyl phosphate

LC 50 (Rainbow Trout, 96 h): 0.4 mg/l
NOEC (Rainbow Trout, 30 d): 0.055 mg/l

Aquatic Invertebrates

tert-Butylphenyl diphenyl phosphate

EC 50 (Not reported, 4 d): 0.39 mg/l

Triphenyl phosphate

EC 50 (Water flea (Daphnia magna), 48 h): 2.41 mg/l
NOEC (Water flea (Daphnia magna), 21 d): 0.254 mg/l

Toxicity to Aquatic Plants

tert-Butylphenyl diphenyl phosphate

EC 50 (Green algae (Selenastrum capricornutum), 4 d): 2.6 mg/l

Triphenyl phosphate

EC 50 (Algae (Pseudokirchneriella subcapitata), 72 h): 3.73 mg/l
NOEC (Algae (Pseudokirchneriella subcapitata), 72 h): 2.3 mg/l

Toxicity to soil dwelling organisms

No data available

Sediment Toxicity

No data available

Toxicity to Terrestrial Plants

No data available

Toxicity to Above-Ground Organisms

No data available

Toxicity to microorganisms

No data available

**Persistence and Degradability
Biodegradation**

Triphenyl phosphate OECD TG 301 C, 83 %, 28 d, Readily biodegradable

**Bioaccumulative potential
Bioconcentration Factor (BCF)**

No data available

Partition Coefficient n-octanol / water (log Kow)

Triphenyl phosphate Log Kow: 4.6 (Measured)

Mobility:

No data available

Other adverse effects

Product: Toxic to aquatic life with long lasting effects.

13. Disposal considerations

Disposal instructions: Treatment, storage, transportation, and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations. Dispose of packaging or containers in accordance with local, regional, national and international regulations. Empty container contains product residue which may exhibit hazards of product.

Contaminated Packaging: Container packaging may exhibit hazards.

14. Transport information

DOT

UN number or ID number:	UN 3082
UN Proper Shipping Name:	Environmentally hazardous substance, liquid, n.o.s.(Triphenyl phosphate)
Transport Hazard Class(es)	
Class:	9
Label(s):	9
Packing Group:	III
Environmental Hazards	Marine Pollutant
Special precautions for user:	None established

IMDG

UN number or ID number:	UN 3082
UN Proper Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(Triphenyl phosphate)
Transport Hazard Class(es)	
Class:	9
Label(s):	9
Packing Group:	III
Environmental Hazards	Marine Pollutant
Special precautions for user:	None established

IATA

UN number or ID number:	UN 3082
Proper Shipping Name:	Environmentally hazardous substance, liquid, n.o.s.(Triphenyl phosphate)
Transport Hazard Class(es):	
Class:	9
Label(s):	9MI
Packing Group:	III
Environmental Hazards	Marine Pollutant
Special precautions for user:	None established

Transport in bulk according to Annex II of MARPOL and the IBC Code

None known.

The DOT shipping information in this section is based on a bulk container. Please review the accompanying shipping papers for the correct shipping descriptions based the size of the package. Shipping descriptions may vary based on mode of transport, quantities, temperature of the material, package size, and/or origin and destination. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material. During transportation, steps must be taken to prevent load shifting or materials falling, and all relating legal statutes should be obeyed. Review classification requirements before shipping materials at elevated temperatures.

15. Regulatory information

US Federal Regulations

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

None present or none present in regulated quantities.

CERCLA Hazardous Substance List (40 CFR 302.4)

<u>Chemical Identity</u>	<u>CAS number</u>	<u>Reportable quantity</u>
Triphenyl phosphate	115-86-6	*See regulation for further details

Superfund amendments and reauthorization act of 1986 (SARA)

SARA 311 Classifications

Acute toxicity (any route of exposure)

SARA 302 Extremely Hazardous Substance

None present or none present in regulated quantities.

SARA 304 Emergency Release Notification

None present or none present in regulated quantities.

SARA 313 (TRI Reporting)

None present or none present in regulated quantities.

US State Regulations

US. California Proposition 65



This product can expose you to chemicals including: Methanol (2.00PPM) which is [are] known to the State of California to cause birth defects or other reproductive harm.

Inventory Status

Australia (AIIC)

All components are in compliance with chemical notification requirements in Australia.

Canada (DSL/NDSL)

All substances contained in this product are in compliance with the Canadian Environmental Protection Act and are present on the Domestic Substances List (DSL) or are exempt.

China (IECSC)

All components of this product are listed on the Inventory of Existing Chemical Substances in China.

European Union (REACH)

To obtain information on the REACH compliance status of this product, please e-mail REACH@SDSInquiries.com.

Japan (ENCS)

All components are in compliance with the Chemical Substances Control Law of Japan.

Korea (ECL)

All components are in compliance in Korea.

New Zealand (NZIoC)

All components are in compliance with chemical notification requirements in New Zealand.

Philippines (PICCS)

All components are in compliance with the Philippines Toxic Substances and Hazardous and Nuclear Wastes Control Act of 1990 (R.A. 6969).

Switzerland (SWISS)

This product contains a substance that is not listed on the Switzerland Inventory of Notified New Substances.

Taiwan (TCSCA)

All components of this product are listed on the Taiwan inventory.

United States (TSCA)

All substances contained in this product are listed on the TSCA inventory or are exempt.

The information that was used to confirm the compliance status of this product may deviate from the chemical information shown in Section 3.

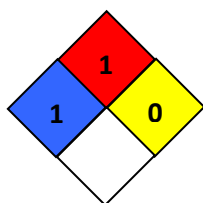
16. Other information, including date of preparation or last revision

HMIS Hazard ID

Health	1
Flammability	1
Physical Hazards	0

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible; *Chronic health effect

NFPA Hazard ID



	Flammability
	Health
	Reactivity
	Special hazard.

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible

Issue Date: 11/23/2021

Version #: 1.0

Source of information: Internal company data and other publically available resources.

Further Information: Contact supplier (see Section 1)

Disclaimer: As the conditions or methods of use are beyond our control, we do not assume any responsibility and expressly disclaim any liability for any use of this product. Information contained herein is believed to be true and accurate but all statements or suggestions are made without warranty, expressed or implied, regarding accuracy of the information, the hazards connected with the use of the material or the results to be obtained from the use thereof. Compliance with all applicable federal, state, and local regulations remains the responsibility of the user.