SAFETY DATA SHEET

1. Chemical and company identification

Name of chemical (Product name) **G-30H**

Supplier's company name, address and phone number

SUPPLIER

COMPANY NAME	Shin-Etsu Chemical Co., Ltd. Silicone Division
ADDRESS	4-1, Marunouchi 1-chome, Chiyoda-ku, Tokyo 100-0005, JAPAN
TELEPHONE NUMBER	03-6812-2400
FAX NUMBER	03-6812-2412
SDS PREPARER	Quality Assurance Department（Gunma Complex）
TELEPHONE NUMBER	027-385-2172
EMERGENCY	027-385-2172（Holiday/Nighttime：027-385-2111）
E-MAIL	msds_s@shinetsu.jp

Recommended use of the chemical and restrictions on use

Intended use	Greases and fluid compounds Low-temperature lubricant
Restrictions on use	Industrial use only.

2. Hazards identification

GHS classification

Physical hazards	The product is not classified according to GHS.	
Health hazards	The product is not classified according to GHS.	
Environmental hazards	Short-term (acute) hazardous to the aquatic environment	Category 3
	Long-term (chronic) hazardous to the aquatic environment	Category 3

*Hazards not stated here are "Not classified", "Not applicable" or "Classification not possible".

GHS label elements

Hazard statement Harmful to aquatic life. Harmful to aquatic life with long lasting effects.

Precautionary statement

Prevention	Avoid release to the environment.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.

Emergency overview Dangerous for the environment if discharged into watercourses.

3. Composition/information on ingredients

Substance or mixture Mixture
(Silicone mixture)

Chemical name or generic name	CAS Number	Gazette notification ENCS no.	Gazette notification ISHL no.	Concentration (%)
Tritolyl phosphate	1330-78-5	(3)-2613	(3)-2613	0.3 - 1

All components are listed on ENCS under CSCL.

4. First aid measures

If inhaled	Not applicable.
If on skin	Wash skin with soap and water. Get medical attention if irritation develops and persists.
If in eyes	Rinse immediately with plenty of water for at least 15 minutes. Get medical attention if irritation develops and persists.
If swallowed	Rinse mouth. Get medical attention immediately.
Protection of first-aid responders	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.
Notes to physician	Treat symptomatically.

5. Fire-fighting measures

Extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
Extinguishing media to avoid	None known.
Specific hazards	By heating and fire, harmful vapors/gases may be formed.
Special fire fighting procedures	Move containers from fire area if you can do so without risk. Water runoff can cause environmental damage.
Protection of fire-fighters	Firefighters must use standard protective equipment including flame retardant coat, helmet, gloves, rubber boots, and self-contained breathing apparatus.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Wear appropriate personal protective equipment.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Avoid release to the environment.
Methods and materials for containment and cleaning up	Eliminate sources of ignition. Collect spillage. Prevent entry into waterways, sewer, basements or confined areas. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Never return spills in original containers for re-use.

7. Handling and storage

Handling

Technical measures (e.g. Local and general ventilation)	Provide adequate ventilation.
Safe handling advice	Use care in handling/storage. Avoid release to the environment. Do not empty into drains. Do not breathe mist or vapor. Avoid prolonged exposure.
Contact avoidance measures	Refer to section 10: stability and reactivity.
Hygiene measures	Wash hands before breaks and immediately after handling the product. Handle in accordance with good industrial hygiene and safety practice.

Storage

Safe storage conditions	Keep container tightly closed. Store in a cool, dry place out of direct sunlight.
Safe packaging materials	Keep in original container.

8. Exposure controls/personal protection

Occupational exposure limits	No exposure limits noted for ingredient(s).
Engineering measures	Provide eyewash station.

Personal protective equipment

Respiratory protection	No personal respiratory protective equipment normally required.
Hand protection	Wear protective gloves.
Eye protection	Wear safety glasses with side shields (or goggles).
Skin and body protection	Wear suitable protective clothing.

9. Physical and chemical properties

Physical state	Solid.
Form	Grease
Color	Grayish white
Odor	Odorless
Melting point/Freezing point	No data
Boiling point, initial boiling point, and boiling range	Not applicable
Combustibility	Ignitable at high temperature.

Lower and upper explosion limit / flammability limit

Explosive limit - lower (%)	No data
Explosive limit - upper (%)	No data
Flash point	> 212 °F (> 100 °C) Closed Cup

Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
pH	Not measurable (Refer to water solubility)
Viscosity	Not applicable
Solubility	Not soluble
Partition coefficient (n-octanol/water)	Not applicable
Vapor pressure	Negligible (25 °C)
Vapor density	Not applicable
Evaporation rate	Negligible (Butyl Acetate=1)
Specific gravity	0.99 (25 °C)
Molecular weight	Not applicable
Particle characteristics	Not available.

10. Stability and reactivity

Reactivity	No hazardous reaction known under normal conditions of use, storage and transport.
Chemical stability	Stable at normal conditions.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	None specific.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	Thermal breakdown of this product during fire or very high heat condition may evolve the following hazardous decomposition product: Carbon oxides and traces of incompletely burned carbon compounds. Silicon dioxide. Formaldehyde .

11. Toxicological information

Acute toxicity

Components	Species	Test Results
Tritolyl phosphate (CAS 1330-78-5)		
Acute		
Dermal		
LD50	Rabbit	> 7900 mg/kg
Oral		
LD50	Rat	5190 mg/kg

Skin corrosion/irritation	Not available.
Serious eye damage/eye irritation	Not available.
Respiratory or skin sensitization	
Respiratory sensitization	Not available.
Skin sensitization	Not available.
Germ cell mutagenicity	Not available.
Carcinogenicity	Not available.
Reproductive toxicity	Suspected of damaging fertility or the unborn child. [Tritolyl phosphate]
Specific target organ toxicity - single exposure	Not available.
Specific target organ toxicity - repeated exposure	Not available.
Aspiration hazard	Not applicable.

12. Ecological information

Ecotoxicological data

Components		Species	Test Results
Tritolyl phosphate (CAS 1330-78-5)			
Aquatic			
Fish	LC50	Rainbow Trout	0.6 mg/l, 96 hours

Ecotoxicity Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects. [Tritolyl phosphate]

Persistence and degradability No data available.

Bioaccumulation No data available.

Mobility in soil No data available.

Hazardous to the ozone layer No data available.

13. Disposal considerations

Local disposal regulations Incinerate. Incinerator should be appropriately equipped for silica and other fine powder which the product will generate in incineration. Workers should wear appropriate personal protective equipment(s) such as respirator. Contract with a disposal operator licensed by the Law on Disposal and Cleaning. Do not allow this material to drain into sewers/water supplies. Dispose of contents/container in accordance with local/regional/national/international regulations.

14. Transport information

International regulations

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code This product is not intended to be transported in bulk.

National regulations Follow regulation in section 15 for domestic transportation.

15. Regulatory information

Industrial Safety and Health Act

Specified substances regulation

Class 1 designated chemical substances

Not applicable

Class 2 designated chemical substances

Not applicable

Class 3 designated chemical substances

Not applicable

Organic solvent regulation

Class 1 organic solvents

Not applicable

Class 2 organic solvents

Not applicable

Class 3 organic solvents

Not applicable

Notifiable substances

TRITOLYL PHOSPHATE(Effect from April 1, 2024.) 0.30 - 1.0 %

Labeling substances

TRITOLYL PHOSPHATE(Effect from April 1, 2024.)

Poisonous and Deleterious Substances Control Act

Specified poisonous substances

Not regulated.

Poisonous substances

Not regulated.

Deleterious substances

Not regulated.

Act on the Regulation of Manufacture and Evaluation of Chemical Substances

Class I specified chemical substances

Not regulated.

Class II specified chemical substances

Not regulated.

Monitoring chemical substances

Not regulated.

Priority Assessment Chemical Substances (PACs)

tritolyl phosphate

Law concerning Pollutant Release and Transfer Register

Law concerning Pollutant Release and Transfer Register (Until March 31, 2023)

Specified class 1 substances (substance name, ordinance number and content)

Not applicable

Class 1 substances (substance name, ordinance number and content)

Not applicable

Class 2 substances (substance name, ordinance number and content)

Not applicable

Law concerning Pollutant Release and Transfer Register (After April 1, 2023)

Specified class 1 substances (Control number, substance name and content)

Not applicable

Class 1 substances (Control number, substance name and content)

Not applicable

Class 2 substances (Control number, substance name and content)

Not applicable

Fire Service Act	Designated combustible material (Synthetic resins, others)
Ship Safety Law, Dangerous Goods Marine Transport and Storage Rule	Not regulated.
Air Law, Enforcement Rule	Not regulated.
Explosives Control Act	Not applicable.
High Pressure Gas Safety Act	Not applicable.
Act on Prevention of Marine Pollution and Maritime Disaster	Not applicable.

16. Other information

Bibliography

HSDB® - Hazardous Substances Data Bank
IARC Monographs. Overall Evaluation of Carcinogenicity
National Toxicology Program (NTP) Report on Carcinogens
ACGIH Documentation of the Threshold Limit Values and Biological Exposure Indices
Japan Society for Occupational Health, Recommendation of Occupational Exposure Limits
JIS Z 7252:2019 Classification of chemicals based on “Globally Harmonized System of Classification and Labelling of Chemicals (GHS)”
JIS Z 7253:2019 Hazard communication of chemicals based on GHS - Labelling and Safety Data Sheet (SDS)
Japan Chemical Industry Association (JCIA) GHS Guideline, June 2019

This safety data sheet was prepared in accordance with JIS Z 7253:2019. This information is offered in good faith as typical values and not as a product specification. No warranty, expressed or implied, is hereby made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate.
This product has been designed, manufactured and developed solely for general industrial use only. This product is not designed for, intended for use as, or suitable for, medical, surgical or other particular purposes. Users have the sole responsibility and obligation to determine the suitability of this product for any application, to make preliminary tests, and to confirm the safety of this product for their use. Users must never use this product for the purpose of implantation into the human body and/or injection into humans.

Version number	04
Revision date	08-29-2024