

Material Safety Data Sheet

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1. IDENTIFICATION

Name of Product	KINORUSTER PASTE #750
Company	KINSEI MATEC CO.,LTD.
Address	2-3-7 Hiranomachi, Chuo-ku, Osaka, Japan
TEL	+81-6-6221-0500
FAX	+81-6-6221-1299

2. HAZARD IDENTIFICATION

GHS Classification

Physical Hazards	Explosives	Not applicable
	Flammable gases	Not applicable
	Flammable aerosols	Not applicable
	Oxidizing gases	Not applicable
	Gases under pressure	Not applicable
	Flammable liquids	Not classified
	Flammable solids	Classification not possible
	Self-reactive substances and mixture	Classification not possible
	Pyrophoric liquids	Not classified
	Pyrophoric solids	Classification not possible
	Self-heating substances and mixture	Classification not possible
	Which in contact with water, emit flammable gases	Not classified
	Oxidizing liquids	Classification not possible
	Oxidizing solids	Classification not possible
	Organic peroxides	Classification not possible
	Corrosive to metals	Classification not possible
Health Hazards	Acute toxicity	Not classified
	Skin corrosion/irritation	Classification not possible
	Serious eye damage/eye irritation	Category 2B
	Respiratory sensitizer	Classification not possible
	Skin sensitizer	Classification not possible
	Germ cell mutagenicity	Classification not possible
	Carcinogenicity	Classification not possible
	Toxic to reproduction	Classification not possible
	Specific target organ toxicity following single exposure	Category 1
	Specific target organ toxicity following repeated exposure	Classification not possible
Environmental Hazards	Aspiration hazard	Classification not possible
	Acute hazards to the aquatic environment	Category 1
	Chronic hazards to the aquatic environment	Category 1

Labeling

Symbol



Signal word

Warning

Hazard statement

Reacts with water to generate flammable gas (Hydrogen gas) .
 Causes eye irritation
 Failure of systemic toxicity (Inhalation)
 Very toxic to aquatic life.
 Very toxic to aquatic life with long lasting effects.

Cautions

(Safety measurements)
 Prohibit to eat, to drink, to smoke during work.
 Seal the container
 Keep away from fire and heat sources.
 No fires
 Wear protective gloves/protective clothing/protective eyeglasses/protective mask.
 Wash thoroughly after handling.
 Avoid release to the environment.
 Wash hands thoroughly after handling.
 Avoid release to the environment.
 (First-aid measures)
 If in eyes, rinse cautiously with plenty of water.
 After treatment, please promptly received medical attention.
 If on skin, rinse skin with plenty of soap.
 If inhalation, remove victim to fresh air and keep at rest in a position comfortable for breathing.
 After treatment, please received medical attention as needed.
 If swallowed, please promptly received medical attention.
 When the fire occurred, please extinguished by foam / powder extinguishing agent or carbon dioxide gas.
 (Storage)
 Seal the container.
 Please keep in a certain location.
 (Disposal)
 Dispose of contents and containers appropriately in accordance with related regulations.

3. Composition/information on ingredients

Chemical

Substance/Mixture

Mixture

Chemical Name

Zinc powder and Hydrocarbon compounds

Materials

Name	contents wt%	Chemical formula	CAS No.	UN group	UN code	PRTR	Packing Group
Zinc powder	78.0	Zn	7440-66-6	4-3	1436	N/A	3(PG III)
Polybutene	2.5	C ₄ H ₉ (C ₄ H ₉) _n C ₄ H ₉	68937-10-0	non	—	N/A	
Silicone oil	4.5		unknown	non	—	N/A	
Isoprene	5.0	(C ₅ H ₈) _n	9003-31-0	non	—	N/A	
Terpentine oil	10.0	(C ₁₀ H ₁₆) _n	35227-16-8	non	—	N/A	

4. First-aid measures

Inhalation

Remove victim to fresh air and keep at rest in a position comfortable for breathing.
 After treatment, please promptly received medical attention.

Skin

Rinse skin with plenty of soap.

Eye

Rinse cautiously with plenty of water for at least 15 minutes.
 After treatment, please received medical attention as needed.

Swallowed

Rinse mouth. Don't induce vomiting. Please promptly received medical attention.

5. Fire-fighting measures

Extinguishing media	Foam extinguishing agent, Powder extinguishing agent, Carbon dioxide gas, Dry sand
Prohibited extinguishing media	Straight stream
Particular hazards	There is a possibility of generating irritating or toxic fume.
Particular fire-fighting	Firefighting work from the windward Movable containers will move immediately to a safe place without risk. The cool by watering to peripheral equipment. Carry out measures so that the material to affect for environment does not spill Evacuate in a safe place
Protection of firefighters	Firefighters should wear the air respirator and chemical protective equipment.

6. Accidental release measures

Personal precautions	Shut off all sources of ignition. Use proper personal protective equipment as indicated in Section 8. Evacuate unauthorized personnel.
Environmental precautions	Take care not to run off to river and sewers and prevent from occurring environment pollution.

7. Handling and Storage

Handling	
Technical measures	Use proper personal protective equipment as indicated in Section 8.
Local and general ventilation	Use local and general ventilation as indicated in Section 8.
Precautions for safe handling	Get the MSDS in advance. Don't handle until understanding. Read safety precautions. Don't touch. Don't inhale. Don't ingest. Don't put into eyes. Use only in well ventilated areas. Wash thoroughly after handling. Prohibit to eat, to drink, to smoke during work.
Storage	
Technical measures	Follow the provisions of the Fire Services Act.
Proper storage conditions	Store at room and keep away from rain. Store away from direct sunlight. Keep away from fire and heat sources

8. Exposure controls/personal protection

Control concentration	Not specified.
Permissible concentration	Not specified.
Exposure Limits	
ACGIH (2006)	TWA:5mg/m ³ (as oil mist)
Equipment measures	Put the local ventilation equipment. Put the face washer and shower.
Protective equipment	Wear proper respiratory protection. Wear protective glove as needed. Wear protective eyeglasses as needed. Wear protective clothing and protective mask as needed. Wash thoroughly after handling.

9. Physical and chemical properties

Appearance	Liquid having a high viscosity, dark gray
Odour	A little bad smelling
pH	None data
Melting Point	419.5°C (Zinc Powder)
Boiling Point, Boiling range	255~355°C (Polybutene)
Flash point	100°C more (Closed type) (Silicone mixture)
Explosive range	Explosion limit lower 480g/m ³ (Zinc powder)
Vapor pressure	1 mmHg(487°C)(Zinc powder)
Vapor density (air= 1)	No data
Specific gravity (Density)	2.2~3.5 (20°C)
Solubility	Insoluble
n-Octanol/water partition coefficient	No data
Auto-ignition temperature	270°C (Terpene hydrocarbon resin)
Decomposition temperature	No data
Evaporation speed (Butyl acetate=1)	No data
Combustibility (Solid, Gas)	No data
Viscosity	No data

10. Stability and Reactivity

Stability	Stable in ordinary handling conditions.
Hazardous reactions	Reacts slowly with water to generate flammable gas (Hydrogen gas) . (Zinc powder)
Conditions to avoid	Store at room and keep away from rain. Store away from direct sunlight. Keep away from fire and heat sources.
Reactive chemical hazards	Strong oxidized substances, Hydrofluoric acid, Fluorine, Fused alkali
Hazardous decomposition products	Toxic fume, Flammable gas (Hydrogen gas)

11. Toxicological information

Acute toxicity(oral)	Rat LD50 >2,000mg/Kg
Acute toxicity(skin)	None data
Acute toxicity(inhalation)	Rat LC50 >5,410mg/m ³
Skin corrosion/irritation	None data
Serious eye damage/eye irritation	May cause slight conjunctive redness and conjunctive edema by the test using a rabbit. (Zinc Dust)
Respiratory or skin sensitization	None data
Skin sensitization	None data
Germ cell mutagenicity	None data
Carcinogenicity	
Reproductive toxicity	None data
Specific target organ systemic toxicity(single exposure)	None data May cause metal fume fever if inhaled. (Zinc Dust)
Specific target organ systemic toxicity(repeated exposure)	None data
Aspiration hazard	None data

12. Ecological information

Hazardous to the aquatic environment (acute)	It was classified into Category 1 from 72 hours EC50=0.15mg/L (EHC221, 2001) of Algae (Selenastrum).
Hazardous to the aquatic environment (Chronic)	Since acute toxicity was Category 1 and it was a metallic compound and an underwater and bio-accumulation were unknown, it was classified into Category 1.

13. Disposal considerations

Waste from Residues / Unused Products	Dispose of in accordance with local regulations.
Contaminated containers and packaging materials	Recycle containers after thoroughly cleaning up, or properly disposed of in accordance with the related laws and regulations and standard regulations of local governments. Before disposing of empty containers, remove contents entirely.

14. Transport information

Proper shipping Name	FLAMMABLE LIQUID, N.O.S.
UN Identification Number	UN1993
Hazard Class	3
Packing Group	III

15. Regulatory information

Industrial Safety and Health Act	Article 57-2 notifiable substances
Poisonous and Deleterious Substances Control Act:	Not regulated
Fire Service Act	Not regulated

16. Other information

The information herein has been prepared on the basis of the materials, information, and data available at the time being drawn up; the information may be revised with subsequently acquired knowledge. Normal handling has been presupposed for the precautionary items; safety measures appropriate to application and usage should be taken in special handling or usage. Use is solely responsible for decision of applying the information herein in usage of the appropriate products.

End of MSDS