



SAFETY DATA SHEET

Issue Date : December 18, 2001

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No. EU030-13

According to Regulation (EC) No. 1907/2006(REACH)

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product name : Polytetrafluoroethylene Solid Powder Lubricant KTL series
KTL-20N, KTL-10N, KTL-10S, KTL-9N, KTL-9S, KTL-9A, KTL-8N,
KTL-8HM, KTL-8F, KTL-8FH, KTL-4N, KTL-2N, KTL-1N

Use of the
Substance/Preparation : Polytetrafluoroethylene (P.T.F.E.) 100%

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2. HAZARDS IDENTIFICATION

GHS : Not applied

Hazardous ingredients : 0 %

The thermal decomposition gas of P.T.F.E. may cause polymer fume fever with flu-like symptoms, when thermally decomposed or smoking contaminated tobacco.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name : Polytetrafluoroethylene (P.T.F.E.) 100%

Molecular formula : $(-CF_2-CF_2-)_n$

CAS No. : 9002-84-0

EINECS : Listed [monomer]

TSCA : Listed

IECSC : Listed

4. FIRST AID MEASURES

Inhalation : Remove from exposure. Move to fresh air in case of accidental inhalation of dust or decomposition gas. Consult a physician.

Skin contact	:	Wash skin with soap and water.
Eye contact	:	Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes.
Ingestion	:	No hazards which require special first aid measures.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media :	All extinguishing agents suitable. (Water, Carbon dioxide, Foam, Dry chemical)
Unusual fire and explosion hazards :	Highly toxic fumes may be emitted. (Hydrogen fluoride (HF), Carbonyl fluoride, Carbon monoxide, Low molecular weight Fluorocarbons)
Special fire fighting precaution/instructions :	Wear self-contained breathing apparatus. Wear suitable protective equipment. Wear neoprene gloves during cleaning up work after a fire.

6. ACCIDENTAL RELEASE MEASURES

Methods for cleaning up :	Clean up promptly by sweeping or vacuum. Recommend to use mechanical handling equipment. Contaminated surfaces will be slippery.
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7. HANDLING AND STORAGE

Handling :	Avoid breathing dust. Avoid contamination of smoking materials with P.T.F.E.. All heated processing equipment must be vented to atmosphere outside the building, because decomposition starts at temperatures above about 250°C.
Storage :	No special precautions. Avoid contamination. Keep containers closed in a dry and well-ventilated place.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering controls
Use general or local exhaust ventilation to meet the exposure requirement.

Personal protective equipment

Respiratory protection :	Dust mask to avoid irritation in dusty situations.
Skin protection :	Wear rubber or polyethylene gloves.
Eye protection :	Safety glasses with side-shields.
Additional recommendations :	Avoid contamination of smoking materials with polymer dust.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance :	White powder
Odour :	None or light acid odour
Boiling point :	N/A
Melting point :	310°C or more
Flash point(method) :	Does not flash (Open cup)

Autoflammability	:	N/A
Ignition temperature	:	If heated in air in the absence of a flame, it will start to burn at about 575°C.
Oxidizing properties	:	Non-oxidizing
Explosive limits	:	N/A
Vapour pressure(20°C)	:	N/A
Water solubility(20°C)	:	Insoluble
pH	:	N/A
Viscosity	:	N/A

10. STABILITY AND REACTIVITY

Stability	:	Stable
Material to avoid	:	Avoid from powdered metals. Finely divided aluminium, potent oxidizers like fluorine (F ₂), related compounds. Reacts with molten alkali metals and finely divided magnesium and aluminium at temperatures above 425°C.
Hazardous decomposition products	:	Hydrogen fluoride (HF), Carbonyl fluoride, Carbon monoxide, and Low molecular weight Fluorocarbons.

11. TOXICOLOGICAL INFORMATION

Acute toxicity Oral LD50	:	1,250mg/kg (mouse), 12,500mg/kg(rat)
Primary skin irritation	:	Not irritant
Primary eye irritation	:	Physical irritation
Genetic studies	:	N/D
Repeated dose oral toxicity	:	N/D
Carcinogenic classification	:	IARC GROUP 3

12. ECOLOGICAL INFORMATION

Biodegradability	:	N/D
Bioaccumulation	:	N/D
Other information	:	BOD: N/A, COD: N/A

13. DISPOSAL CONSIDERATION

Waste disposal	:	Dump in accordance with local regulations. Combustion products will include acidic substances. Facility must be capable of handling halogenated materials.
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14. TRANSPORT INFORMATION

Specific hazards	:	No foreseeable hazard in product transportation.
Packaging information	:	Product usually shipped in fibre drum with polyethylene inside bags.
International Transport Classification		
Danger Class	:	None
UN No.	:	Not assigned

Packaging group	:	Not assigned
Road Transportation (ADR)	:	Not classified
Rail Transportation (RID/RMP)	:	Not classified
Sea Transportation (IMDG/IMO)	:	Not classified
Air Transportation (ICAO/IATA)	:	Not classified

15. REGULATORY INFORMATION

Labelling information	:	Not a hazardous substance or preparation according to EC-directives 67/548/EEC or 1999/45/EC. Not need to be labelled in accordance with EC directives.
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16. OTHER INFORMATION

Abbreviation	:	N/D : no data N/A : not applicable N/E : not established
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The information given in this safety data sheet is for safety purpose only. It is given in good faith and based on the best knowledge and experience of the company at the date of issuing. The company is not responsible for damages caused by the use of the product in applications for which it was not intended or for conditions of use of its control.

KITAMURA MSDSs are available at <http://www.kitamuraltd.jp>.