

SAFETY DATA SHEET

Date: 13 MAY 2010

Version: 1.02

Replaces: 25 MAR 2010

1. Identification of the substance/preparation and company/undertaking

Product Name Kolate 6030
Use Thickener for industrial formulations (eg grease)
Distributor FedChem LLC- Subs. Federal Process Corporation
 4620 Richmond Road
 Cleveland, OH 44128, USA
Email jlundell@federalprocess.com
Emergency phone Emergency (Chemtrec): +1 703 527 3887
Phone Information: +1 216 464 6440 Hours: M-F 8AM-5PM EST

2. Hazards Identification

Classification None
Health hazards None
Environmental hazards None identified
Fire and explosion hazards Non-regulated

3. Composition/information on ingredients

Hazardous components	Conc (%)	EC No	CAS No	Classification
None				
Non-hazardous components				
White Mineral Oil	< 55	232-455-8	8042-47-5	None
Aluminum Acylate	<55	--	CBI	None

4. First-aid measures

Inhalation The components have a low vapour pressure, and inhalation is not expected unless misting or aerosolisation occurs. However, if dizzy, drowsy or overcome, remove patient from exposure and give fresh air and rest. Obtain medical attention immediately for symptoms of difficulty in breathing.

Skin contact Remove contaminated clothing, and clean before re-use. In case of contact with skin wash affected area with soap and water. For severe contamination or if irritation occurs seek medical attention.

Eye contact In case of contact with eyes, irrigate immediately with plenty of water for 10 to 15 minutes and seek medical advice. Refer to an eye specialist, even if there are no visible injuries.

Ingestion If swallowed, wash out mouth thoroughly and give water to drink. Seek medical attention and show this safety data sheet. Do **not** induce vomiting. Look out for symptoms of aspiration, such as coughing, choking or gagging (see Section 11).

Medical treatment Give symptomatic treatment and supportive therapy as indicated.

Kolate 6030

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5. Fire-fighting measures

Fire and explosive properties	Non regulated.
Extinguishing media	Carbon dioxide, dry chemical, foam, or water spray. Water reacts and forms an insoluble aluminium soap.
Specific hazards	Closed containers may rupture (due to buildup of pressure) when exposed to extreme heat.
Protective equipment	Fire fighters should wear an approved self-contained breathing apparatus and full protective clothing.

6. Accidental release measures

Personal precautions	Ensure full personal protection during removal of large spillages. Keep unprotected persons away.
Environmental precautions	Ventilate area and remove ignition sources. Turn leaking containers leak-side up to prevent the escape of liquid. Prevent leakage of large quantities into the drainage system. In the event of large spills contact the emergency services and local authorities.
Method for cleaning up	Try to contain spill by diking with liquid-binding material. Place in a suitably labelled container for disposal in accordance with local and national regulations. Contact authorities and waste water treatment plant as appropriate if significant contamination occurs.

7. Handling and storage

Information for safe handling	Keep container tightly sealed. Ensure good ventilation/exhaustion at the workplace. Keep ignition sources away. Do not smoke.
Storage	Store in a cool, dry place. Keep away from sources of ignition and heat.

8. Exposure controls/personal protection

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Engineering measures	Ensure adequate ventilation. Extraction to remove vapours at source is recommended.
Personal protective equipment	Chemical resistant gloves (PVC) and safety goggles are recommended. Where more extensive contact may occur, wear suitable protective clothing (eg apron, sleeves, boots). Wear suitable respiratory protective equipment if exposure to levels above occupational exposure limit is likely. PPE manufacturers should be consulted.
UK occupational exposure limits (EH40)	Oil mist, mineral: Long-term exposure limit (8 h TWA) 5 mg/m ³ short-term exposure limit (15 min ref. period) 10 mg/m ³

9. Physical and chemical properties

Appearance	Clear straw-coloured liquid
Odour	Mineral-oil-like
pH	Not applicable
Molecular Weight	Mixture
Boiling range	250-290 °C
Melting range	Not determined
Explosive properties	Not explosive
Flash point	>93 °C (Pensky Martens closed cup)
Vapour pressure (base oil)	<0.1 mmHg at 21 °C
Relative density (water = 1)	0.960 g/cm ³ at 20 °C
Solubility: in water	Practically insoluble
Viscosity at 20° C	<1000mPas

10. Stability and reactivity

Stable under recommended storage and handling conditions, in particular there is no hazardous polymerisation reaction.

Conditions to avoid	No decomposition if used according to specifications.
Dangerous reactions	No dangerous reactions known.
Hazardous decomposition products	None

11. Toxicological information

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The preparation has not been tested for toxicological effects, but may cause slight local irritation of the skin. The components are not classified as dangerous substances. In particular, the aluminium chelate is not classified for acute toxicity, irritation, sensitisation, repeated-dose toxicity, or mutagenic effects, although no data is available for carcinogenic or reproductive effects.

Aspiration of some mineral oils may lead to chemical pneumonitis which is characterized by pulmonary edema and hemorrhage and may be fatal. Signs of lung involvement include increased respiratory rate, increased heart rate, and a bluish discoloration of the skin.

Coughing, choking, and gagging are often noted at the time of aspiration. Gastrointestinal discomfort may develop, followed by vomiting with a further risk of aspiration.

The base oil has laxative properties and may result in abdominal cramps and diarrhea. Highly refined base oils generally have LD₅₀ values > 2000 mg/kg, and no classification recommendations for irritation, sensitisation, repeated-dose toxicity (oral), mutagenicity, carcinogenicity, or reproductive effects, although aspiration may be a hazard for some (Concawe recommendations).

12. Ecological information

Ecotoxicological data have not been determined specifically for this product. Information given is based on knowledge of the components and the ecotoxicology of similar products.

Mobility

The product is a liquid. The base oil is expected to float on water. No component is volatile, so no contamination of the air compartment is expected. The aluminium chelate is water-reactive, and will hydrolyse to simple organic products and aluminium hydroxide.

Persistence/degradability

The aluminium chelate is readily biodegradable.

Bioaccumulation

Due to the hydrolysis and readily biodegradability no bioaccumulation of the aluminium chelate is expected.

Toxicity

Highly refined base-oils typically have LD₅₀ values greater than 1000 mg/l, and do not represent a long-term danger to the aquatic environment (Concawe recommendation). The aluminium chelate has an LD₅₀ (Daphnia, 48 h) of 55 mg/l.

13. Disposal considerations

Disposal must be in accordance with current national and local regulations. Chemical residues generally count as special waste. The disposal of the latter is regulated in the EC member countries through corresponding laws and regulations. We recommend that you contact either the authorities or approved waste disposal companies who will advise you on how to dispose of special waste.

Containers of this material may be hazardous when emptied due to solid or vapor residue. All hazard precautions given in this data sheet must be observed for empty containers

14. Transport information

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Not classified for transport. No dangerous goods according to the above specifications.

15. Regulatory information

Classification and labelling according to EC Directives

Symbol and indication

of danger: None

Risk phrases: None

Safety phrases: None

Contains: No statement required

Governing EU Directives:

EU Directive 67/548/EEC (Dangerous Substances Directive), and 99/45/EC (Dangerous Preparations Directive) with modifications.

This Safety Data Sheet is based on EU Directive EC 1907/2006.

Relevant UK legislation:

Chemicals (Hazard Information for Packaging for Supply) Regulations 2002.

Control of Substances Hazardous to Health Regulations 1999 SI 1999/437.

Health and Safety at Work Act 1974 c 37.

Personal Protective Equipment (EC Directive) Regulations SI 1992/3139.

Environmental Protection Act 1990 c 43.

The Environment Act 1995 c 25.

Special Waste Regulations 1996 SI 1996/972.

Carriage of Dangerous Goods by Road and Rail (Classification, Packaging and Labelling) Regulations.

Guidance:

The Compilation of Safety Data Sheets (Third Edition) (CHIP 3 Approved Code of Practice).

Approved Classification and Labelling Guide (Fifth Edition).

Approved Supply List. Information approved for the classification and labelling of substances and preparations dangerous for supply.

COSHH Essentials: Easy steps to chemical control.

Occupational Exposure Limits EH40.

Classification and labelling of petroleum substances according to the EU dangerous substances directive (CONCAWE recommendations – August 2001).

16. Other information

None