

SAFETY DATA SHEET

FLUOROCOAT THIN FILM COATING

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

PRODUCT NAME FLUOROCOAT THIN FILM COATING
PRODUCT NO. ETFCF250/ 05L
SUPPLIER ELECTROLUBE. A division of HK
 WENTWORTH LTD
 KINGSBURY PARK, MIDLAND
 ROAD
 SWADLINCOTE
 DERBYSHIRE, DE11 0AN
 UNITED KINGDOM
 +44(0)1283 222 111
 +44(0)1283 550 177

2 HAZARDS IDENTIFICATION

Highly flammable. Harmful: may cause lung damage if swallowed.

CLASSIFICATION Xn;R65. F;R11.

3 COMPOSITION/INFORMATION ON INGREDIENTS

| Name | EC No. | CAS-No. | Content | Classification |
|--------------------|-----------|------------|---------|---------------------------------------|
| C7-C10 ISO-ALKANES | 292-458-5 | 90622-56-3 | 60-100% | Xn;R65. Xi;R38. F;R11. N;R51/53. R67. |

The Full Text for all R-Phrases are Displayed in Section 16

COMPOSITION COMMENTS

Ingredients not listed are classified as non-hazardous or at a concentration below reportable levels

4 FIRST-AID MEASURES

INHALATION

Move the exposed person to fresh air at once. Keep the affected person warm and at rest. Get prompt medical attention.

INGESTION

Rinse mouth thoroughly. Do not induce vomiting. If vomiting occurs, the head should be kept low so that stomach vomit doesn't enter the lungs. Provide rest, warmth and fresh air. Get medical attention immediately!

SKIN CONTACT

Wash the skin immediately with soap and water. Get medical attention if irritation persists after washing.

EYE CONTACT

Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes. Contact physician if irritation persists.

5 FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

Fire can be extinguished using: Foam. Dry chemicals, sand, dolomite etc.

SPECIAL FIRE FIGHTING PROCEDURES

Avoid breathing fire vapours. Cool containers exposed to flames with water until well after the fire is out.

6 ACCIDENTAL RELEASE MEASURES

SPILL CLEAN UP METHODS

Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Absorb in vermiculite, dry sand or earth and place into containers.

7 HANDLING AND STORAGE

USAGE PRECAUTIONS

Avoid spilling, skin and eye contact. Keep away from heat, sparks and open flame.

FLUOROCOAT THIN FILM COATING

STORAGE PRECAUTIONS

Flammable/combustible - Keep away from oxidisers, heat and flames. Store in tightly closed original container in a dry, cool and well-ventilated place. Keep in original container.

STORAGE CLASS

Flammable liquid storage.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

| Name | Std | LT - ppm | LT - mg/m3 | ST - ppm | ST - mg/m3 |
|--------------------|-----|----------|------------|----------|------------|
| C7-C10 ISO-ALKANES | WEL | | 1200 mg/m3 | | |

INGREDIENT COMMENTS

WEL = Workplace Exposure Limits

PROTECTIVE EQUIPMENT



ENGINEERING MEASURES

All handling to take place in well-ventilated area. Provide adequate ventilation, including appropriate local extraction, to ensure that the defined workplace exposure limit is not exceeded.

RESPIRATORY EQUIPMENT

In case of inadequate ventilation and work of brief duration, use suitable respiratory equipment.

HAND PROTECTION

Protective gloves should be used if there is a risk of direct contact or splash. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material.

EYE PROTECTION

Use approved safety goggles or face shield.

OTHER PROTECTION

Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact.

HYGIENE MEASURES

DO NOT SMOKE IN WORK AREA! Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly with soap & water if skin becomes contaminated. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke.

9 PHYSICAL AND CHEMICAL PROPERTIES

| | | | |
|--------------------------------|-------------------|-------------------------------|-----------------|
| APPEARANCE | Liquid | | |
| COLOUR | Colourless | | |
| ODOUR | Characteristic | | |
| BOILING POINT (°C) | >110 | MELTING POINT (°C) | -20 |
| RELATIVE DENSITY | 0.724 @ 15 °c | VAPOUR PRESSURE | 1.9 kPa @ 20 °c |
| VISCOSITY | 0.62 mPas @ 25 °c | FLASH POINT (°C) | 7 |
| AUTO IGNITION TEMPERATURE (°C) | 380 | FLAMMABILITY LIMIT - LOWER(%) | 0.7 |
| FLAMMABILITY LIMIT - UPPER(%) | 6.0 | | |

10 STABILITY AND REACTIVITY

STABILITY

Stable under normal temperature conditions.

CONDITIONS TO AVOID

Avoid heat. Avoid contact with oxidisers or reducing agents.

HAZARDOUS DECOMPOSITION PRODUCTS

Fire creates: Vapours/gases/fumes of: Carbon monoxide (CO). Carbon dioxide (CO2).

11 TOXICOLOGICAL INFORMATION

FLUOROcoat THIN FILM COATING

INHALATION

May cause irritation to the respiratory system. Vapours may cause headache, fatigue, dizziness and nausea.

INGESTION

Harmful: may cause lung damage if swallowed.

SKIN CONTACT

Irritating to skin. Prolonged contact may cause dryness of the skin.

EYE CONTACT

Irritating to eyes.

Other Health Effects

This substance has no evidence of carcinogenic properties.

12 ECOLOGICAL INFORMATION

ECOTOXICITY

Not regarded as dangerous for the environment.

13 DISPOSAL CONSIDERATIONS

DISPOSAL METHODS

Dispose of waste and residues in accordance with local authority requirements.

14 TRANSPORT INFORMATION



| | | | |
|----------------------|--|------------------|-----------------------------|
| UK ROAD CLASS | 3 | | |
| PROPER SHIPPING NAME | HYDROCARBONS, LIQUID, N.O.S. (C7-C10 ISO-ALKANES, NAPHTHA (PETROLEUM),) | | |
| UN NO. ROAD | 3295 | UK ROAD PACK GR. | II |
| ADR CLASS NO. | 3 | ADR CLASS | Class 3: Flammable liquids. |
| ADR PACK GROUP | II | HAZARD No. (ADR) | 33 |
| ADR LABEL NO. | 3 | HAZCHEM CODE | 3WE |
| CEFIC TEC(R) NO. | 30GF1-I+II | RID CLASS NO. | 3 |
| RID PACK GROUP | II | UN NO. SEA | 3295 |
| IMDG CLASS | 3 | IMDG PAGE NO. | 3 |
| IMDG PACK GR. | II | EMS | F-E, S-D |
| MFAG | See Guide | MARINE POLLUTANT | No. |
| UN NO. AIR | 3295 | AIR CLASS | 3 |
| AIR PACK GR. | II | | |

15 REGULATORY INFORMATION

LABELLING



Harmful



Highly Flammable

CONTAINS

C7-C10 ISO-ALKANES

RISK PHRASES

R11 Highly flammable.
R65 Harmful: may cause lung damage if swallowed.

FLUOROCOAT THIN FILM COATING

SAFETY PHRASES

| | |
|-----|---|
| S9 | Keep container in a well-ventilated place. |
| S16 | Keep away from sources of ignition - No smoking. |
| S51 | Use only in well-ventilated areas. |
| S62 | If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label. |

UK REGULATORY REFERENCES

Chemicals (Hazard Information & Packaging) Regulations. The Control of Substances Hazardous to Health Regulations 1988.

ENVIRONMENTAL LISTING

Control of Pollution Act 1974. Control of Pollution (Special Waste Regulations) Act 1980. Rivers (Prevention of Pollution) Act 1961.

EU DIRECTIVES

Dangerous Substance Directive 67/548/EEC. Dangerous Preparations Directive 1999/45/EC. System of specific information relating to Dangerous Preparations. 2001/58/EC.

APPROVED CODE OF PRACTICE

Classification and Labelling of Substances and Preparations Dangerous for Supply. Safety Data Sheets for Substances and Preparations.

GUIDANCE NOTES

Workplace Exposure Limits EH40.

16 OTHER INFORMATION

REVISION COMMENTS

Revised in accordance with CHIP3 and EU Directives 1999/45/EC and 2001/58/EC

ISSUED BY

Helen O'Reilly

REVISION DATE JUNE 2007

REV. NO./REPL. SDS GENERATED 3

SDS NO. 10607

RISK PHRASES IN FULL

| | |
|--------|---|
| R11 | Highly flammable. |
| R38 | Irritating to skin. |
| R51/53 | Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |
| R65 | Harmful: may cause lung damage if swallowed. |
| R67 | Vapours may cause drowsiness and dizziness. |

DISCLAIMER

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.