

MATERIAL SAFETY DATA SHEET

EXXELIS LIMITED
ETTC Biospace, Kings Buildings
Mayfield Road, Edinburgh, EH9 3JF

Tel: 0044 1316633366
Fax: 0044 1316623397

1. CHEMICAL IDENTIFICATION

Product name: EXX-TMW-CLAD

2. COMPOSITION / INFORMATION ON INGREDIENTS

Substance: Mixture of (meth)acrylates monomers, 2-hydroxy-2-methylpropiophenone and (2,2-dimethoxy-1,2-diphenylethan-1-one)

3. HAZARDS IDENTIFICATION

Classification: Irritating to eyes, respiratory system and skin. Harmful if swallowed. Very toxic for aquatic organisms.

4. FIRST AID

Eye contact: Wash with copious amounts of water for at least 15 minutes – Do not rub eyes – seek medical attention.

Skin contact: Wash thoroughly with soap and water – remove contaminated clothing – if symptoms persist, call a physician.

Inhalation: Move subject to fresh air and give artificial respiration if necessary, if required give oxygen. If condition does not improve, seek medical advice.

Ingestion: Do not induce vomiting. Rinse out mouth and drink water – call a physician.

5. FIRE FIGHTING

Extinguishing media: Carbon dioxide, Foam or Dry powders for small fires.

Specific hazards: Risk of formation of oxides of carbon and sulphur. Risk of polymerisation.

Protection of Fire Fighters: Wear individual breathing apparatus. Wear suitable protective clothing, gloves and eye/face protection.

6. ACCIDENTAL RELEASE MEASURES

Personal Protection: Contact with skin/eyes and inhalation of vapours to be avoided. Wear suitable mask/respiratory equipment, gloves, goggles and complete impervious clothing.

Environmental: Do not allow entry into sewers / natural environments.

Fire explosion hazard: High temperature, inhibition depletion or exposure to radiation or oxidising agents may cause spontaneous polymerization resulting in heat/pressure. Closed containers may burst during such polymerisation.

Workplace precautions: Local exhaust ventilation is recommended. Safety shower and eye wash should be close by.

Methods for cleaning up:	Extinguish all ignition sources. Maximise ventilation. Contain spillage using an inert absorbent. Collect product in a suitable container pending future destruction.
Disposal considerations:	See Section 13

7. HANDLING AND STORAGE

Handling precautions:	Ensure adequate ventilation. Wear suitable protective clothing.
Storage:	Store upright in a cool dry place, ideally below 30°C. Store tightly closed in original container and protect from sunlight. Avoid proximity of flame and heat sources.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Ventilation:	Good general mechanical ventilation is required. Suction exhaust at source is recommended.
Respiratory protection:	Wear appropriate NIOSH/MSHA respirator if there is a risk of exposure to high concentration.
Eye protection:	Wear safety glasses or goggles.
Hand protection:	Wear suitable chemical resistant gloves – neoprene or nitrile recommended.
Skin protection:	Protective overalls are recommended when large quantities of product are involved

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Light yellow to orange liquid
Odour:	Acrylic
Lowest boiling point Component:	100°C @ 0.05 mmHg
Water solubility:	Insoluble
Vapour pressure:	Not determined
Specific gravity:	Not determined
Flash point:	> 60°C

10. STABILITY AND REACTIVITY

Conditions to avoid:	Storage above 30°C, localised heat/ignition sources, freezing conditions, direct sunlight, UV light, Oxygen scavengers and inert gas blanketing.
Materials to avoid:	Free radical producing chemicals, peroxides, strong bases, oxidising and reducing agents. Hazardous decomposition oxides of carbon and sulphur
Hazardous decomposition Products:	Oxides of Carbon, Nitrogen and sulphur and some Brominated compounds may be released.
Hazardous polymerisation:	Will occur

11. TOXICOLOGICAL INFORMATION

Effect on eye contact:	May cause eye irritation and corneal damage.
Effect on skin contact:	May cause irritation. Used ingredients are not known sensitizers but prolonged / repeated exposure may cause dermatitis.
Effect on inhalation:	May cause irritation to the nose, throat and respiratory tract.
Effects on ingestion:	May cause irritation of the gastrointestinal tract and depression of the central nervous system. May be harmful.
Chronic effects:	Not determined
General comments:	It should be noted that toxicological and physiological properties of this monomer formulation are not yet well determined. Care should be taken to prevent contact with skin and eyes and from contaminating personal clothing.

12. ECOLOGICAL INFORMATION

Aquatic toxicity data:	Environmentally hazardous, very toxic to the aquatic organisms.
General information:	Do not discharge into drains or the environment.

13. DISPOSAL CONSIDERATIONS

Measures for disposal:	Dispose of material in accordance with all regulations.
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14. TRANSPORT INFORMATION

ADR/RID

UN number: 3082
 UN number: 3077
 Class: 9,
 Packaging group: III
 Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE,
 LIQUID, N.O.S
 Additional Information: (2-hydroxy-2-methylpropiophenone) and (2,2-dimethoxy-1,2-diphenylethan-1-one)

IMO

UN number: 3082
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ICAO

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15. REGULATORY INFORMATION**Labelling:**

Symbol: Xn Harmful
N Dangerous for the environment

R-Phrases(s): R22, Harmful if swallowed

S-Phrases(s): S46 If swallowed, seek medical advice immediately and show this label.
S60 This material and/or its container must be disposed of as hazardous waste.
S61 Avoid release to the environment.

Risk phrases: Irritating to eyes, respiratory system and skin

Safety phrases Do not breathe vapour. Avoid contact with skin and eyes. In case of contact with eyes rinse immediately with plenty of water and seek medical advice.
After contact with skin, wash immediately with plenty of water.

TSCA status: All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

16. OTHER INFORMATION

Date of preparation: January 2006

Warranty: The above information is believed to be correct and is only intended as a guide. Exxelis Limited shall not be held liable for any damage or injury resulting from handling, use or from contact with this material.
