

Protective Film - Safety Data Sheet

According to (EC) No. 1907/2006 (REACH), Annex II

Section 1: Identification

Product Name: Protective Film
Product Code: CP, WP, HP

Restrictions on use: --
Supplier name:

| | | |
|-----------|---|--|
| Supplier: | T.I Midwood & Co. Ltd TIMCO House Green Lane Wardle Nantwich CW5 6BJ | T.I Midwood & Co. Ltd Aviemore House Hill Street Monahan Ireland |
|-----------|---|--|

Emergency Help Line: 01865 407333 (24 hour service)

Section 2: Hazard identification

Classification of the substance: Not applicable

GHS label elements:

pictogram(s): --

Signal word: --

Hazard statement(s): --

Precautionary statement(s):

•**Prevention:** --

•**Response:** --

•**Storage:** --

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•**Disposal:** --

Other Hazards:

Combustible. Decomposes on heating. This produces toxic and irritating fumes. This generates fire and explosion hazard. Finely dispersed particles form explosive mixtures in air. Reacts violently with fluorine. Reacts with strong acids and strong oxidants.

Inhalation of dust may cause Cough.

See Section 12 for environmental hazards.

Section 3: Composition/information on ingredients

Article.

| Chemical Name | CAS No. | Percent (by weight) | EC /List No. | Classification according to regulation (EC) No 1272/2008 [CLP] |
|---|------------|---------------------|--------------|--|
| Polyethylene | 9002-88-4 | 90 | 618-339-3 | Not Classified |
| 2-Propenoic acid, polymer with butyl 2-propenoate and isooctyl 2-propenoate | 63793-44-2 | 10 | -- | -- |

Section 4: First-aid measures

| | |
|---------------------|--|
| Inhalation | IF INHALED: remove person to fresh air and keep comfortable for breathing. Get medical help if you feel unwell. |
| Skin Contact | IF ON SKIN: Wash with plenty of water and soap. If skin irritation occurs: Get medical help. IF MOLTEN MATERIAL GETS ON SKIN, cool rapidly with cold water. Do not attempt to remove material from skin. Obtain medical treatment for thermal burn. |

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| | |
|--------------------|--|
| | Cover skin burns with dry sterile dressings after decontamination. |
| Eye Contact | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical help. |
| Ingestion | IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Get medical help. |

Personal protective equipment for first-aid responders: Use proper personal protective equipment as indicated in Section 8.

Most important symptoms/effects, acute and delayed: See Section 11 for more information.

Indication of immediate medical attention and special treatment needed: Treat symptomatically and supportively. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.

Section 5: Fire-fighting measures

Suitable extinguishing media: Use water spray, powder, foam, carbon dioxide.

Unsuitable extinguishing media:

Water may be ineffective.

Do NOT direct a solid stream of water or foam into burning molten material; this may cause spattering and spread the fire.

Specific Hazards arising from the chemical:

Organic powders when finely divided over a range of concentrations regardless of particulate size or shape and suspended in air or some other oxidizing medium may form explosive dust-air mixtures and result in a fire or dust explosion (including secondary explosions).

May emit poisonous fumes.

May emit corrosive fumes.

Combustion products include:

- carbon monoxide (CO)
- carbon dioxide (CO₂)
- other pyrolysis products typical of burning organic material.

Specific protective actions for fire-fighters:

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Alert Fire Brigade and tell them location and nature of hazard.
Wear breathing apparatus plus protective gloves.
Prevent, by any means available, spillage from entering drains or water courses.
Use water delivered as a fine spray to control fire and cool adjacent area.
DO NOT approach containers suspected to be hot.
Cool fire exposed containers with water spray from a protected location.
If safe to do so, remove containers from path of fire.
Equipment should be thoroughly decontaminated after use.
Special protective actions for fire-fighters:
In the event of fire, wear self-contained breathing apparatus and protective suit.
Structural firefighters' protective clothing will only provide limited protection.

Section 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

See section 8.

Environmental precautions:

See section 12.

Methods and materials for containment and cleaning up:

SMALL SPILLS

Clean up all spills immediately.

Contain and absorb spill with dry sand, earth, inert material or vermiculite.

Scoop up solid residues and seal in labeled drums for disposal.

LARGE SPILLS:

Clear area of personnel and move upwind.

Contain spill with sand, earth or other clean, inert materials.

Collect any recoverable product into labeled containers for possible recycling.

Collect residues and seal in labeled drums for disposal.

Wash area and prevent runoff into drains.

IF contamination of drains or waterways occurs advise emergency services.

Section 7: Handling and storage

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Precautions for safe handling:

NO open flames.

Avoid inhalation of dust.

Wear protective clothing when risk of exposure occurs.

Dust explosion-proof electrical equipment and lighting.

Prevent deposition of dust.

Use in a well-ventilated area.

Prevent concentration in hollows and sumps.

DO NOT enter confined spaces until atmosphere has been checked.

Avoid contact with incompatible materials.

When handling, DO NOT eat, drink or smoke.

Avoid physical damage to containers.

Always wash hands with soap and water after handling.

Work clothes should be laundered separately. Launder contaminated clothing before re-use.

Use good occupational work practice.

Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions are maintained.

Conditions for safe storage:

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.
No smoking.

Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from acids and strong oxidants and food and drink.

Section 8: Exposure controls/personal protection

Control parameters

| CAS No. | DNELs Exposure Pattern Worker | PNECs Compartment |
|------------|----------------------------------|----------------------|
| 9002-88-4 | No data available | No data available |
| 63793-44-2 | No data available | No data available |

• Occupational exposure limits:

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| CAS No. | Long-term exposure limit (8-hr TWA) mg/m ³ | Short-term exposure limit (15-minute) mg/m ³ | Comments |
|------------|--|--|----------|
| 9002-88-4 | No data available | No data available | -- |
| 63793-44-2 | No data available | No data available | -- |

Emergency limits

| CAS No. | Revised IDLH |
|------------|-------------------|
| 9002-88-4 | No data available |
| 63793-44-2 | No data available |

Appropriate engineering controls:

Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment.

Dust explosion-proof electrical equipment and lighting.

Local exhaust ventilation usually required.

If risk of overexposure exists, wear approved respirator.

Provide adequate ventilation in warehouse or closed storage area.

Personal protective equipment:

Eyes Protection:

- Safety glasses with side shields.
- Chemical goggles.
- Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants.
- Eye wash unit.

Skin and Body Protection:

- When handling hot or molten liquids, wear trousers or overalls outside of boots, to avoid spills entering boots.
- Overalls.
- P.V.C. apron.
- Barrier cream.
- Skin cleansing cream.
- Safety footwear or safety gumboots, e.g. Rubber.

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Respiratory Protection:

Wear suitable respiratory protective equipment if exposure to dust or fumes is likely. Particulate filter respirator adapted to the airborne concentration of the substance.

Hand Protection:

- General protective gloves, eg. light weight rubber gloves.
- Chemical protective gloves, e.g. PVC.

Thermal hazards: No data available.

Section 9: Physical and chemical properties

Physical State: clear transparent solid film

Odour: odorless

Odour threshold: No data available

pH: No data available

Melting point/freezing point: No data available

Boiling point or initial boiling point and boiling range: No data available

Flash Point: No data available

Explosive limits: No data available

Vapour pressure: No data available

Density / Relative density: No data available

Relative vapor density: No data available

Solubility in Water: Immiscible

Partition coefficient: n-octanol/water: No data available

Auto-ignition temperature: No data available

Decomposition temperature: No data available

Kinematic viscosity: No data available

Explosive properties: No data available

Oxidising properties: No data available

Particle characteristics: No data available

Flammability (solid, gas): Combustible Solid.(ICSC)

Section 10: Stability and reactivity

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Reactivity:

CAS#9002-88-4

Reacts violently with fluorine.

(HSDB)

Is attacked by oxidizing agents such as nitric and perchloric acids, free halogens, benzene, petroleum ether, gasoline and lubricating oils, aromatic and chlorinated hydrocarbons.

(NTP, 1992)

Chemical Stability: Unstable in the presence of incompatible materials.

Conditions to Avoid: See section 7.

Incompatibilities with Other Materials: Strong acids and strong oxidants.

Hazardous Decomposition Products: See section 5.

Section 11 - Toxicological information

Acute toxicity:

| CAS No. | LD ₅₀ /LC ₅₀ |
|------------|--------------------------------------|
| 9002-88-4 | LD ₅₀ >2000mg/kg rat oral |
| 63793-44-2 | No data available |

Skin irritation/corrosion: No data available.

Serious eye damage/irritation: No data available.

Respiratory or Skin sensitisation: No data available.

Germ cell mutagenicity: No data available.

Carcinogenicity: No data available.

Reproductive toxicity: No data available.

Specific target organ toxicity-Single exposure: No data available.

Specific target organ toxicity-Repeated exposure: No data available.

Aspiration hazard: No data available.

Section 12 - Ecological information

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Toxicity:

| CAS No. | Ecological Toxicity |
|------------|---------------------|
| 9002-88-4 | No data available |
| 63793-44-2 | No data available |

Persistence and degradability:

CAS#9002-88-4

Polyethylene films incubated in aerobic and anaerobic bioreactors did not degrade over the course of 4-week to 25-week exposure periods.

Similar experiments conducted using aerobic and anaerobic bioreactors concluded no biodegradation of polyethylene occurred over 40-70 day incubation periods. (HSDB)

Bioaccumulative Potential: No data available.

Mobility in Soil: No data available.

Other adverse effects: No data available.

Section 13 - Disposal considerations

Disposal method:

Disposal should be in accordance with applicable regional, national and local laws and regulations.

The generation of waste should be avoided or minimized wherever possible.

Contaminated Packaging:

Contaminated packaging material should be treated equivalent to residual chemical. Clean packaging material should be subjected to waste management schemes (recovery recycling, reuse) according to local legislation. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14 - Transport information

Air transport (IATA /DGR6nd)

UN Number: --

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Proper Shipping Name (PSN): --
Class or division: --
Subsidiary Hazard: --
Packaging group: --
Packing Label/Mark:--
Other Information: --

Sea transport (IMDG CODE 39-18 edition)

UN Number: --
Proper Shipping Name(PSN): --
Class or division: --
Subsidiary hazard: --
Marine Pollutant (Y/N): N
UN Packing group: --
Packing Label/Mark: --
Other Information: --
Special precautions for user: --

Land transport (TDG21st)

UN Number: --
Proper Shipping Name(PSN):--
Class or division: --
Subsidiary hazard: --
UN Packing group: --
Packing Label/Mark: --
Other Information: --

Section 15: Regulatory information

Safety, health and environmental regulations specific for the product in question

| CAS No. | TSCA | IECSC | EINECS | DSL/NDSL |
|------------|--------|--------|------------|----------|
| 9002-88-4 | Listed | Listed | Listed | DSL |
| 63793-44-2 | Listed | Listed | Not listed | NDSL |

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To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Other Information:

CAS: (Chemical Abstracts Service);

EC: (European Commission);

ACGIH: (American Conference of Governmental Industrial Hygienists);

NIOSH: (US National Institute for Occupational Safety and Health);

OSHA: (US Occupational Safety and Health);

TLV: (Threshold Limit Value);

TWA: (Time Weighted Average);

STEL: (Short Term Exposure Limit);

PEL: (Permissible Exposure Level);

REL: (Recommended Exposure Limit);

PC-STEL: (Permissible concentration-time weighted average);

PC-TWA: (Permissible concentration-short time exposure limit);

LC50: (Lethal concentration, 50 percent kill);

LD50: (Lethal dose, 50 percent kill);

IARC: (International Agency for Research on Cancer);

EC50: (Median effective concentration);

BCF: (Bioconcentration Factor);

BOD: (Biochemical oxygen demand);

NOEC: (No observed effect concentration);

NTP: (US National Toxicology Program);

RTECS: (Registry of Toxic Effects of Chemical Substances);

IATA: (International Air Transport Association);

IMDG: (International Maritime Dangerous Goods);

TDG: (Recommendations on the TRANSPORT OF DANGEROUS GOODS Model Regulations);

TOC: (Total Organic Carbon);

TSCA: (Toxic Substances Control Act of USA);

DSL: (the Domestic Substances List of Canada);

NDSL: (the Non-domestic Substances List of Canada)

***End of report ***