Product	Terminator
Revision date	03 February 2021
Revision	1

Safety Data Sheet (SDS)

according to Regulation (EC) No. 1907/2006

Section 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name	**Terminator**
Other means of identification	HJ10-003U-9003-ADVW

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses	Paint or paint related material.
Uses advised against	No uses advised against are identified.

1.3 Details of the supplier of the safety data sheet

Supplier	FSW Coatings Ltd Virginia Co Cavan Ireland Tel: 353 49854 7209
Contact person	info@fsw.ie

1.4 Emergency telephone number

Emergency telephone	+ 353 49854 7209 (Between 0900 and 1700 hrs Monday-Friday)
National emergency telephone number	Outside those hours, contact National Poisons Information Centre, Beaumont Hospital. Members of Public: +353 (1) 809 2166. (8.00 a.m. to 10.00 p.m. 7 days a week) Healthcare Professionals: +353 (1) 809 2566 (24 hour service)

Section 2: Hazards identification

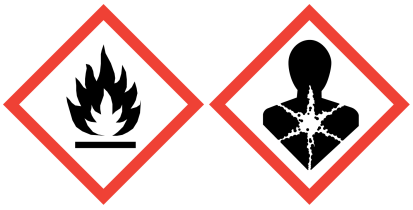
2.1 Classification of the substance or mixture

Classification (EC 1272/2008)	
Physical and chemical hazards	Flam. Liq 2- H225
Human health	STOT SE 1 - H370
Environment	Not classified

2.2 Label elements

Contains methanol

Label in accordance with (EC) no. 1272/2008



Signal word Danger

Hazard statements

H225 Highly flammable liquid and vapour.
H370 Causes damage to organs.

Precautionary statements

Prevention

P210 Keep away from heat/ sparks/open flames/hot surfaces. — No smoking.
P233 Keep container tightly closed.
P260 Do not breathe dust/fume/ gas/mist/vapours/spray.
P280 Wear protective gloves/ protective clothing/eye protection/face protection.

Response
P307 + P311 IF exposed: Call a POISON CENTER or doctor/physician.
Storage
P403 + P235 Store in a well-ventilated place. Keep cool.

EUH statements EUH211 Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

2.3 Other hazards

None known.

Section 3: Composition/information on ingredients

3.1 Substance

Not applicable.

3.2 Mixtures

Name	Product identifier	Regulation (EC) No 1272/2008	%
Ethanol	CAS-No.: 64-17-5 EC No.: 200-578-6	Flam. Liq 2- H225	60-70%
titanium dioxide	CAS-No.: 13463-67-7 EC No.: 236-675-5		10-20%
methanol	CAS-No.: 67-56-1 EC No.: 200-659-6	Flam. Liq 2- H225, Acute Tox 3 - H301, Acute Tox 2 - H310, Acute Tox 3 - H331, STOT SE 1 - H370	5-10%

The full text for all hazard statements are displayed in section 16.

Composition comments The data shown are in accordance with the latest EC Directives.
Methanol: Specific Concentration Limits = STOT SE 1; H370: C >= 10 %, STOT SE 2; H371: 3 % <= C < 10 %.
This mixture is not classified as a carcinogen due to the liquid state of the product. H351 as related to Titanium Dioxide is only applicable in powdered form.

Section 4: First aid measures

4.1 Description of first aid measures

General information If medical advice is needed, have product container or label at hand. Take off contaminated clothing and wash it before reuse. First aider: Pay attention to self-protection!

Inhalation If inhaled, remove to fresh air. Keep comfortable for breathing. Seek medical attention.

Ingestion DO NOT INDUCE VOMITING! Promptly get affected person to drink large volumes of water to dilute the swallowed chemical. Get medical attention immediately! Rinse mouth thoroughly. Consult a physician for specific advice.

Skin contact Remove affected person from source of contamination. Remove contaminated clothing. Wash the skin immediately with soap and water. Get medical attention if any discomfort continues.

Eye contact If this product contacts the eyes, gently flush eyes with water for at least fifteen (15) minutes, lifting the upper and lower eyelids occasionally. Remove contact lenses if worn. Subsequently consult an ophthalmologist.

4.2 Most important symptoms and effects, both acute and delayed

General information The severity of the symptoms described will vary dependant of the concentration and the length of exposure.

Inhalation May cause narcotic effects in high concentration. Dizziness, double vision and other characteristics typical of drunkeness, vomiting, loss of consciousness.

Ingestion Prolonged exposure to product may cause irritation to lining of the mouth. May cause nausea or vomiting. Ingestion of large amounts may cause unconsciousness

Skin contact Prolonged contact may cause redness, irritation and dry skin. Absorption through the skin may be fatal.

Eye contact May cause temporary eye irritation. There may be severe pain. The eyes may water profusely.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to the physician Treat Symptomatically.

Section 5: Firefighting measures

5.1 Extinguishing media

Extinguishing media Use fire-extinguishing media appropriate for surrounding materials. Use water spray, alcohol-resistant foam, dry chemical, carbon dioxide (CO2).

Unsuitable extinguishing media High volume water jet.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products During fire, gases hazardous to health may be formed. Oxides of carbon.

Unusual fire & explosion hazards Exposure to fire may cause containers to rupture/explode.

Specific hazards The product is flammable, and heating may generate vapours which may form explosive vapour/air mixtures. Vapours may proceed on the ground over great distances and cause fire and backflashes.

5.3 Advice for firefighters

Special fire fighting procedures If possible, fight fire from protected position. Ventilate closed spaces before entering them. Keep up-wind to avoid fumes. Avoid breathing fire vapours. Containers close to fire should be removed immediately or cooled with water if safe to do so. Do not allow fire water to penetrate into surface or ground water. Fire residuals and contaminated extinguishing water must be disposed of in accordance with the regulations of the local authorities.

Protective equipment for firefighters Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents. Hazchem-Code: •2YE

Section 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel Avoid any contact with the skin and eyes. Avoid inhaling the vapors. Eliminate all sources of ignition. Ensure adequate ventilation. Wear protective clothing as described in Section 8 of this safety data sheet. Keep unnecessary people away; isolate hazard area and deny entry. Take off contaminated clothing and shoes immediately. Wash contaminated clothing before re-use.

For emergency responders Follow safe handling advice and personal protective equipment recommendations for normal use of product.

6.2 Environmental precautions

Environmental precautions Do not discharge into drains, water courses or onto the ground. Spillages or uncontrolled discharges into watercourses must be IMMEDIATELY alerted to the Environmental Agency or other appropriate regulatory body

6.3 Methods and material for containment and cleaning up

Spill clean up methods Absorb spillage with non-combustible, inert absorbent material. Collect spillage in containers, seal securely and deliver for disposal according to local regulations. Clean affected area. Use non-sparking hand tools and explosion proof electrical equipment for clean up. In case of spills of large quantities: Dam spills. Beware of reignition. In case of greater quantities: Collect mechanically (use only explosion-proof equipment when pumping out).

6.4 Reference to other sections

Reference to other sections For waste disposal, see section 13. See section 1 for emergency contact. For personal protection, see section 8.

Section 7: Handling and storage

7.1 Precautions for safe handling

Handling

Keep away from heat, sparks and open flame. Avoid spilling, skin and eye contact. Ventilate well, avoid breathing vapours. Use approved respirator if air contamination is above accepted level. Do not use in confined spaces without adequate ventilation and/or respirator. Wear suitable personal protective equipment, as detailed in Section 8. Wash thoroughly after handling. Do not eat, drink or smoke when using the product. Keep out of reach of children and pets. Wash hands thoroughly after handling. Remove and wash contaminated clothing before reusing. Work place should be equipped with a shower and an eye rinsing apparatus. Protect against static electricity. Use non sparking tools/explosion proof equipment and lighting system. Do not weld. Keep away from ignition sources. In partially filled containers explosive mixtures may form.

7.2 Conditions for safe storage, including any incompatibilities

Storage precautions

Store in tightly closed original container in a dry, cool and well-ventilated place. Keep in an area equipped with solvent resistant flooring. Keep the product in its original container. Keep away from direct sunlight. Keep upright. Explosion protection required. Keep away from food, drink and animal feeding stuffs. Do not store together with strong oxidizing agents, strong acids, anhydrides or alkali metals.

Storage class

Flammable liquid storage. Unsuitable materials: various plastics, rubber.

7.3 Specific end use(s)

Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

Usage description

Use only according to directions.

Section 8: Exposure controls/Personal protection

8.1 Control parameters

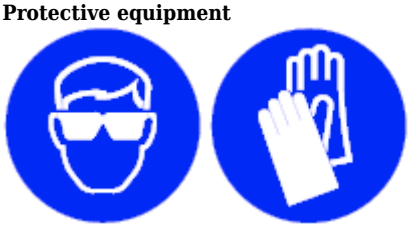
Component	STD	TWA (8 Hrs)		STEL (15mins)		Notes
Ethanol	OEL			1000 ppm		
Ethanol	WEL	1000 ppm	1920 mg/m^3			
titanium dioxide	OEL		10 mg/m^3			
titanium dioxide	OEL		4 mg/m^3			
titanium dioxide	WEL		10 inhalable aerosol mg/m^3			
titanium dioxide	WEL		4 respirable aerosol mg/m^3			
methanol	OEL	200 ppm	260 mg/m^3			Sk, IOELV
methanol	WEL	200 ppm	266 mg/m^3	250 ppm	333 mg/m^3	Sk

Ingredient comments

Ireland, Occupational Exposure Limits 2020.

8.2 Exposure Controls

Protective equipment



Engineering measures

Provide adequate general and local exhaust ventilation. Provide explosion proof ventilation for high concentrations.

Respiratory equipment

Not normally required if good ventilation is maintained. Wear a NIOSH/MSA or European EN-149-approved respirator if conditions generate vapors or mists. Use filter type A (= against vapours of organic substances) according to EN 14387.

Hand protection

Where hand contact with the product may occur the use of gloves approved to relevant standards (e.g. Europe: EN374) is recommended. Butyl rubber gloves are recommended. Minimum layer thickness: 0.5 mm. Minimum breakthrough time / gloves: 480 min. Unsuitable materials: natural rubber, nitrile rubber, PVC. Consult manufacturer for specific advice.

Eye protection

Wear safety goggles in accordance with EN166. Eye protection equipment should be tested

	and approved according to regulations applicable, like NIOSH (US) or EN 166 (EU).
Other protection	Use engineering controls to reduce air contamination to permissible exposure level. In case of handling larger quantities: flame retardant protective clothing, antistatic. The selected clothing must satisfy the European norm standard EN 943.
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 if skin becomes wet or contaminated. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke.
Process conditions	Ensure that eye flushing systems and safety showers are located close by in the work place.

Section 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	Liquid.
Colour	White
Odour	Alcohol-like.
Odour threshold - lower	No information available as testing has not been completed.
Odour threshold - upper	No information available as testing has not been completed.
pH-Value, Conc. Solution	7.00
pH-Value, Diluted solution	No information available as testing has not been completed.
Melting point	-112°C
Initial boiling point and boiling range	78°C
Flash point	18°C
Evaporation rate	No information available as testing has not been completed.
Flammability state	Highly flammable liquid and vapour.
Flammability limit - lower(%)	No information available as testing has not been completed.
Flammability limit - upper(%)	No information available as testing has not been completed.
Vapour pressure	58 mbar
Vapour density (air=1)	No information available as testing has not been completed.
Relative density	1.34
Bulk density	Not applicable.
Solubility	Slightly soluble
Decomposition temperature	No information available as testing has not been completed.
Partition coefficient; n-Octanol/Water	No information available as testing has not been completed.
Auto ignition temperature (°C)	No information available as testing has not been completed.
Viscosity	Non-viscous
Explosive properties	Formation of explosive vapour is possible.
Oxidising properties	The product does not meet the criteria to be classified as oxidising.

9.2 Other information

Molecular weight	Not applicable.
Volatile organic compound	No information available as testing has not been completed.
Other information	Not oxidising. Refraction index: 1.362 n20/D (ISO 5661) (20°C)

Section 10: Stability and reactivity

10.1 Reactivity

Reactivity	Highly flammable liquid and vapour. Vapours may form explosive mixture with air.

10.2 Chemical stability

Stability	Stable under normal temperature conditions and recommended use.

10.3 Possibility of hazardous reactions

Hazardous reactions	For information on hazardous reaction see section 10.1.
Hazardous polymerisation	Unknown.
Polymerisation description	Unknown.

10.4 Conditions to Avoid

Conditions to avoid	Keep away from heat, sparks and open flame. Avoid exposure to high temperatures or direct sunlight.

10.5 Incompatible materials

Materials to avoid	Strong oxidising substances. Strong acids.

10.6 Hazardous decomposition products

Hazardous decomposition products	When heated, vapours/gases hazardous to health may be formed

Section 11: Toxicological information

11.1 Information on hazard classses as defined in Regulation (EC) No. 1272/2008

Toxicological information	No toxicological information for the overall finished product.
Acute toxicity (Oral LD50)	No information available as testing has not been completed.
Acute toxicity (Dermal LD50)	No information available as testing has not been completed.
Acute toxicity (Inhalation LD50)	No information available as testing has not been completed.
Serious eye damage/irritation	May cause temporary eye irritation.
Skin corrosion/irritation	The product is not classified as a skin corrosion/irritation hazard.
Respiratory sensitisation	The product is not classified as a respiratory hazard.
Skin sensitisation	The product is not classified as a skin sensitisation hazard.
Germ cell mutagenicity	The product is not classified as a mutagen.
Carcinogenicity	The product is not classified as a carcinogen hazard.
Specific target organ toxicity - Single exposure:	
STOT - Single exposure	The product is classified as a single exposure specific target organ toxin.
Specific target organ toxicity - Repeated exposure:	
STOT - Repeated exposure	The product is not classified as a repeat exposure specific target organ toxin.
Inhalation	May cause narcotic effects in high concentration. Dizziness, double vision and other characteristics typical of drunkeness, vomiting, loss of consciousness.
Ingestion	Prolonged exposure to product may cause irritation to lining of the mouth. May cause nausea or vomiting. Ingestion of large amounts may cause unconsciousness
Skin contact	Prolonged contact may cause redness, irritation and dry skin. Absorption through the skin may be fatal.
Eye contact	May cause temporary eye irritation. There may be severe pain. The eyes may water profusely.
Waste management	When handling waste, consideration should be made to the safety precautions applying to handling of the product. Handle empty containers with care. Incineration may cause explosion. Non-contaminated packages may be recycled.
Routes of entry	Eyes, skin, ingestion or inhalation.
Target organs	Eyes, skin, digestive system, respiratory system.

Aspiration hazards: The product is not classified as an aspiration hazard.
Reproductive toxicity: The product is not classified as a reproductive hazard.

Name	LD50 oral	LD50 dermal	LD50 inhalation
Ethanol	3450.00mg/kg Mouse		
methanol	5628.00mg/kg Rat		

11.2 Information on other hazards

Information on other hazards None known.

Section 12: Ecological information

12.1 Toxicity

Acute toxicity - Fish No information available as testing has not been completed.
Acute toxicity - Aquatic invertebrates No information available as testing has not been completed.
Acute toxicity - Aquatic plants No information available as testing has not been completed.
Acute toxicity - Microorganisms No information available as testing has not been completed.
Chronic toxicity - Fish No information available as testing has not been completed.
Chronic toxicity - Aquatic invertebrates No information available as testing has not been completed.
Chronic toxicity - Aquatic plants No information available as testing has not been completed.
Chronic toxicity - Microorganisms No information available as testing has not been completed.
Ecotoxicity The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.
Eco toxilogical information Not classified as dangerous for the environment according to the criteria of Regulation (EC) No 1272/2008.

12.2 Persistence and degradability

Degradability Biodegradable.
Biological oxygen demand No information available as testing has not been completed.
Chemical oxygen demand No information available as testing has not been completed.

12.3 Bioaccumulative potential

Bioaccumulative potential No bioaccumulation potential.
Bioaccumulation factor No information available as testing has not been completed.
Partition coefficient; n-Octanol/Water No information available as testing has not been completed.

12.4 Mobility in soil

Mobility Readily absorbed into soil.

12.5 Results of PBT and vPvB assessment

Results of PBT and vPvB assessment The product does not contain any PBT or vPvB Substances.

12.6 Endocrine disrupting properties

Endocrine disrupting properties The product does not contain any substances with endocrine disrupting properties at a concentration above or equal to 0.1%.

12.7 Other adverse effects

Other adverse effects Do not allow to enter into ground-water, surface water or drains.

Section 13: Disposal considerations

Waste management When handling waste, consideration should be made to the safety precautions applying to

handling of the product. Handle empty containers with care. Incineration may cause explosion. Non-contaminated packages may be recycled.

13.1 Waste treatment methods

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

Section 14: Transport information

14.1 UN number or ID number

UN no. (ADR)	UN1263
UN no. (IMDG)	UN1263
UN no. (IATA)	UN1263

14.2 UN proper shipping name

ADR proper shipping name	PAINT or PAINT RELATED MATERIAL
IMDG proper shipping name	PAINT or PAINT RELATED MATERIAL
IATA proper shipping name	PAINT RELATED MATERIAL

14.3 Transport hazard class(es)

ADR class	3
IMDG class	3
IATA class	3

Transport labels

14.4 Packing group

ADR/RID/ADN packing group	II
IMDG packing group	II
IATA packing group	II

14.5 Environmental hazards

ADR	No
IMDG	No
IATA	No

14.6 Special precautions for user

EMS	F-E, S-E
Emergency action code	A3 A72 A192
Hazard no. (ADR)	33
Tunnel restriction code	(D/E)

14.7 Maritime transport in bulk according to IMO instruments

Not applicable.

Section 15: Regulatory information

15.1 Safety, health and environmental regulations/Legislation specific for the substance or mixture

EU legislation Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments.

Commission Regulation (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

Approved code of practice	2020 Code of Practice for the Safety, Health and Welfare at Work (Chemical Agents) Regulations (2001-2015) and the Safety, Health and Welfare at Work (Carcinogens) Regulations (2001-2019)

15.2 Chemical safety assessment

Chemical safety assessment	No chemical safety assessment has been carried out.

Section 16: Other information

General information	This Safety Data Sheet is in accordance with Reach Regulation (EC) No 453/2010.
Revision comments	This is a first issue.
Revision date	03 February 2021
Revision	1
Safety data sheet status	Approved.

Hazard statements in full

H225	Highly flammable liquid and vapour.
H301	Toxic if swallowed.
H311	Toxic in contact with skin.
H331	Toxic if inhaled.
H370	Causes damage to organs .
EUH211	Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

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.