SAFETY DATA SHEETS (SDS)
Enviro Prime FM

Version:1

Issued by: Envirosystems Technologies

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Hazard Identifiers

SECTION 1 – IDENTIFICATION OF MATERIAL & SUPPLIER

1.1	**Product Name:**	Enviro Prime FM
	Manufacturer's Product Code:	N/A
1.2	**Recommended Use:**	Ferrous metal primer
1.3	**Company:**	Envirosystems Technologies Pty Ltd
	Address:	295 Princes Highway St Peters, NSW 2044.
	Website:	www.envirosystems.com.au
	Telephone:	+61 2 85958699 (business hours)
	Fax:	+61 2 85958660
1.4	**Emergency Telephone:**	Info Safe – 1800 638 556, Poisons Centre – 131126

Other Information: All information in this SDS is to the best of our knowledge at time of publication. Users of this product should fully review this SDS prior to use to ensure best safety practices. Further information and or clarification can be obtained by contacting our technical department on the above telephone number.

SECTION 2 – HAZARDS IDENTIFICATION

2.1 Hazard Classification:

Classified as **Hazardous** according to WHS Regulations, Australian GHS criteria and a **Dangerous Goods** according to the Australian Dangerous Goods Code.

Class	Category
Flammable Liquid	3
Sensitisation - Skin	1
Aspiration Hazard	1

2.2 Label Elements

Signal word **Danger**

H-code	Hazard Statements
H226	Flammable liquid and vapour.
H317	May cause an allergic skin reaction.
H304	May be fatal if swallowed and enters airways.
P-Code	**Precautionary Statement - Prevention**
P210	Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P271	Use only outdoors or in a well-ventilated area.
P240	Ground/bond container and receiving equipment
P241	Use explosion-proof

	electrical/ventilating/lighting/intrinsically safe equipment
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge
P261	Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray
P264	Wash skin thoroughly after handling.
P270	Do not eat drink or smoke when using this product
P285	In case of inadequate ventilation wear respiratory protection.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment
P280	Wear protective gloves / protective clothing / eye protection / face protection and suitable respirator.
P-Code	**Precautionary Statement - Response**
P101	If medical advice is needed, have product container or label at hand.
P301, P310, P331	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting.
P302, P352	IF ON SKIN: Wash with plenty of soap and water.
P303, P361, P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304, P341	IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
P333, P313	If skin irritation or rash occurs: Get medical advice / attention.
P342, P311	If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
P363	Wash contaminated clothing before reuse.
P370, P378	In case of fire: Use alcohol resistant foam or normal protein foam for extinction.
P-Code	**Precautionary Statement - Storage**
P403, P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P-Code	**Precautionary Statement - Disposal**
P501	Dispose of contents/ container to an approved waste disposal plant. In accordance with local regulation

2.3 Other Hazards None known

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

3.2 Mixtures See section below for Mixtures

CAS No.	Material	Content %
96-29-7	2-Butanone, oxime	<1
64742-82-1	Naphtha, petroleum, hydrodesulfurized heavy	10-30
Not Available	Pigments / Extenders	10-30
64742-88-7	Solvent naphtha, petroleum, medium aliphatic	10-30
13463-67-7	Titanium oxide (TiO2)	1-10

Not Available	Alkyd resin	10-30

SECTION 4 – FIRST AID MEASURES

4.1 Description of first aid measures

General Advice:
Immediately remove contaminated clothing. If in danger of loss of consciousness, place patient in recovery position and transport accordingly. Apply artificial reparation if necessary. First aid personal should pay attention to the own safety. If poisoning occurs, contact a doctor or Poisons Information Centre (Phone Australia 131 126, New Zealand 0800 764 766).

Ingestion:
If swallowed do NOT induce vomiting. If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration. Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink. Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious. Transport to hospital or doctor without delay.

Inhalation:
Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. In case of unconsciousness, place patient stably in side position for transportation to a hospital, or doctor.

Eye Contact:
While holding eyes open, gently flood with plenty of fresh water for 15 minutes. Washing within one minute is essential to achieve maximum effectiveness. Seek medical attention without delay and if pain persists or recurs also seek medical attention. Skilled personnel should only undertake removal of contact lenses after an eye injury.

Skin Contact:
Flush contacted area thoroughly with soap and plenty of water. Seek medical attention in event of irritation. Remove contaminated clothing including footwear.

4.2 Most important symptoms and effects, both acute and delayed

Any relevant information can be found in other parts of this section and in sections 2 and 11.

4.3 Advice for doctor

Treat symptomatically.

SECTION 5 – FIRE FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media:
Water fog or fine spray for large fires only. Dry chemical powder, foam, BCF (where regulations permit). Alcohols resistant foams are preferred or dry agent (carbon dioxide, dry chemical powder). Protein foams may functions but will be less effective.

Unsuitable extinguishing media that may not be used for safety reasons:
Do not use direct water stream as it might spread the fire.

5.2 Special hazards arising from the substance or mixture

Oxides of carbon and other possibly toxic fumes from fire. Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result.

5.3 Advice for firefighters

Wear full body protective clothing with breathing apparatus. Prevent, by any means available, spillage from entering drains or water course. Heating may cause

expansion or decomposition leading to violent rupture of containers. On combustion, may emit toxic fumes of carbon monoxide (CO). Combustion products include:, carbon dioxide (CO2), phenolics products typical of burning organic material. Closed containers may rupture due to pressure buildup under fire conditions.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Secure the area. Wear personal protection equipment (see section 8). Keep unprotected persons away. Avoid contact with eyes and skin. Do not inhale gases/vapours/aerosols. If material is released indicate risk of slipping. Do not walk through spilled material. No smoking, naked lights or ignition sources.

6.2 Environmental precautions

Do not discharge into sewers or waterways and soil.

6.3 Methods and material for containment and cleaning up

Small or major spills should be absorbed with dry, inert filler (soil or sand) which then can be shoveled into appropriately labeled drums for disposal. Disposal of this material should be undertaken by a registered chemical disposal company.

6.4 Reference to other sections

Relevant information in other sections has to be considered. This applies in particular for information given on personal protective equipment (section 8) and on disposal (section 13).

SECTION 7 – HANDLING & STORAGE

7.1 Precautions for safe handling

Ensure thorough ventilation of stores and work areas. Handle in accordance with good industrial hygiene and safety practice. When using, do not eat, drink or smoke. Hands and/or face should be washed before breaks and at the end of the shift. DO NOT enter confined spaces until atmosphere has been checked.

7.2 Conditions for safe storage

Storage Requirements:
Store in a cool, dry and well-ventilated place. No smoking, naked lights or ignition sources. Store in a metal can or drum.
Temperature Conditions:
Up to 40º C
Protection from weather:
Store undercover and away from frost and moisture

7.3 Specific end use(s)

Metal Primer

7.4 Regulations and standards (Australia):

Classified as Hazardous Liquid which should be stored and handled in accordance with regulations

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Exposure limits safe work Australia

Ingredient	STEL	TWA
Titanium dioxide		10 mg/m3

Emergency Limits:

Ingredient	TEEL-1	TEEL-2	TEEL-3

8.2	**Exposure controls**	**General protection and hygiene measures:** Local exhaust ventilation usually required. If risk of overexposure exists, wear approved respirator. Correct fit is essential to obtain adequate protection. Do not eat, drink or smoke when handling. Wash hands at the end of work and before eating. Keep working clothes separately. Remove contaminated, soaked clothing immediately. Clean work areas regularly. **Personal protection equipment:** *Respiratory protection* Type A-P Filter of sufficient capacity. (AS/NZS 1716). Where the concentration of vapors approach or exceeds safety standards positive pressure face respiratory will be required. *Eye protection* Chemical goggles. Full face respiratory may be required if exposure causes discomfort. *Hand protection* When handling wear chemical resistant gloves. *Skin protection* Overalls clothing. *Other Information* Use barrier creams to protect skin from contact with the material. Always wash hands before smoking, eating, drinking or using the toilet and after finishing work. Observe the usual precautions when handling chemicals.
8.3	**Further information for system design and engineering measures**	Ventilation is recommended under normal use conditions. State regulations on speed and direction of airflow away from operators must be observed. Keep containers closed when not in use.

SECTION 9 – PHYSICAL & CHEMICAL PROPERTIES

9.1	**Odour:**	Hydrocarbon
	Odour Threshold	Not determined
	Colour:	Grey
	Physical State:	Viscous Liquid
	Flash Point:	40 ºC approximately Pensky-Martens
	Autoignition Temperature:	Not determined
	Boiling Point:	> 100°C
	Melting Point:	Not determined
	Specific Gravity:	1.4 - 1.5 @ 20°C
	pH:	Not determined
	Solubility in Water (g/L):	Immiscible
	Flammability:	Flammable.
	Lower Limit:	1% v/v approximately
	Higher Limit:	7% v/v approximately
	Vapour Pressure:	Not determined
	Vapour Density (Air = 1)	Not determined
	VOC %	Not determined
9.2	**Other information**	None available

SECTION 10 – STABILITY AND REACTIVITY

10.1 -3	**Reactivity; Chemical stability; Possibility of hazardous**	If stored and handled in accordance with standard industrial practices not hazardous reactions are known.

	reactions	Unstable in the present of incompatible material.
10.4	**Conditions to avoid**	Exposure to elevated temperatures and sources of ignition.
10.5	**Incompatible materials**	Keep away from oxidising agents.
10.6	**Hazardous decomposition products**	Oxides of carbon and other possibly toxic fumes from fire. Reacts with water forming carbon dioxide.Danger of receptacles bursting because of vapour overpressure.

SECTION 11 – TOXICOLOGICAL INFORMATION

Acute Toxicity/Effects

Inhalation
Material may be an irritant to mucous membranes and respiratory tract.

Acute toxicity estimate (based on ingredients):
LC50 > 20.0 mg/L for vapours or LC50 > 5.0 mg/L for dust and mist or LC50 > 20,000 ppm for gas

Skin corrosion/irritation
Contact with skin may result in irritation. A skin sensitiser. Repeated or prolonged skin contact may lead to allergic contact dermatitis.

Acute toxicity estimate (based on ingredients): >2,000 mg/Kg bw

Serious eye damage/eye irritation
May be an eye irritant. This material has been classified as not corrosive or irritating to eyes.

Ingestion
Swallowing can result in nausea, vomiting and irritation of the gastrointestinal tract. May cause lung damage if swallowed. Small amounts of liquid aspirated into the respiratory system during ingestion or vomiting may cause bronchopneumonia or pulmonary oedema.

Acute toxicity estimate (based on ingredients):
>2,000 mg/Kg bw

Sensitisation
Inhalation: this material has been classified as not a respiratory sensitiser.
Skin: this material has been classified as a Category 1 Hazard (skin sensitiser).

Aspiration hazard
This material it an aspiration hazard. Category 1

Specific target organ toxicity (single exposure)
This material has been classified as non-hazardous.

Chronic Toxicity/Effects

Specific target organ systematic toxicity (repeated exposure)
This material has been classified as non-hazardous.

Genetic toxicity
This material has been classified as non-hazardous.

Carcinogenicity
This material has been classified as non-hazardous.

Reproductive toxicity / Teratogenicity
This material has been classified as non-hazardous.

Long Term Effects: No Data

SECTION 12 – ECOLOGICAL INFORMATION

Toxicity

Acute aquatic hazard:
This material has been classified as non-hazardous. Acute toxicity estimate (based on ingredients): >100 mg/L

Long-term aquatic hazard:
This material has been classified as non-hazardous. Non-rapidly or rapidly degradable substance for which there are adequate chronic toxicity data available OR in the absence of chronic toxicity data, Acute toxicity estimate (based on ingredients): >100 mg/L, where the substance is not rapidly degradable and/or BCF < 500 and/or log Kow < 4.

Persistence and degradability No information available.

Bioaccumulative potential No information available.

Mobility in soil No information available.

Additional Information Do NOT discharge into sewer or waterways.

SECTION 13 – DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Material Recommendation:
Material that cannot be used, reprocessed or recycled should be disposed of in accordance with Federal, State, and local regulations at an approved facility. Depending on the regulations, waste treatment methods may include, e.g., landfill or incineration.

Uncleaned packaging Recommendation:
Completely discharge containers (no tear drops, no powder rest, scraped carefully). Containers may be recycled or re-used. Observe local/state/federal regulations. Uncleaned packaging should be treated with the same precautions as the material.

SECTION 14 – TRANSPORT INFORMATION

Transport Information

Classified as a **Dangerous Good** according to the Australian Code for the Transportation of Dangerous Goods by Road and Rail.

U.N. Number:	1263
DG Class:	3
EPG card:	N/A
Hazchem Code:	3Y
Proper Shipping Name:	PAINT RELATED MATERIAL.
Packing Group:	III

Classification for SEA U.N. Number: 1263

transport (IMO-IMDG)	DG Class:	3
	Proper Shipping Name:	PAINT RELATED MATERIAL
	Packing Group:	N/A
	Marine Pollutant:	No
Classification for AIR transport (IATA/ICAO)	U.N. Number:	1263
	DG Class:	3
	Proper Shipping Name:	PAINT RELATED MATERIAL
	Packing Group:	III

Label

SECTION 15 – REGULATORY INFORMATION

15.1	**Safety, health and environmental regulations/legislation specific for the substance or mixture**	National and local regulations must be observed. For information on labeling please refer to section 2 of this document. **Poisons Schedule Number: 5**
	Australian Inventory:	Listed
	Controlled Schedule	Not listed substances
	Carcinogenic Substances:	

SECTION 16 – OTHER INFORMATION

Safety Data Sheets are updated regularly. Please ensure you have a current copy. SDS can be obtained from our website: www.envirosystems.com.au
The SDS should be used to assist in the Risk Management. Many other factors determine whether the reported Hazards are risks in any given workplace.
Specific Risks may be determined by reference to various Exposure Scenarios, Scale of use, Frequency of use and current or available engineering controls must be considered.

Emergency Telephone: Info Safe – 1800 638 556, Poisons Centre – 13112