

Trade name: **PROMAPAIN<sup>®</sup> TIE-COAT****1. Identification of the product and of the company**

**Product name:** PROMAPAIN<sup>®</sup> Tie-Coat  
**Intended Product use:** Industrial spraying, general industrial coatings, water based intumescent paint.  
**Company** Comp : Promat International (Asia Pacific) Ltd.  
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**2. Composition / Information on ingredients**

Component	CAS No.	Symbol	R-phrases
Ethyl methyl ketimine	96-27-9	Xn	R21, R41, R43, R40
Solvent naphtha (petroleum, light aromatic)	64742-94-5	Xn, N	R10, R51/53, R65, R37, R66, R67

**3. Hazard Identification**

**R-phrases** Flammable.  
 Harmful by inhalation and in contact with skin.  
 Irritating to respiratory system.  
 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
 Repeated exposure may cause skin dryness or cracking.

**S-phrases** Do not breathe spray.  
 Wear suitable protective clothing and gloves.  
 In case of insufficient ventilation, wear suitable respiratory equipment.  
 Avoid release to the environment. Refer to special instructions / safety data sheets.

**P-phrases** Contains ethyl methyl ketoxime. May produce an allergic reaction.

**4. First aid measures**

**General** When symptoms persist or in all cases of doubt seek medical advice.  
 Never give anything by mouth to an unconscious person.

**Inhalation:** Remove to fresh air. Keep patient warm and at rest.  
 If breathing is irregular or stopped, administer artificial respiration.  
 If unconscious place in recovery position and seek medical advice.

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<b>Ingestion:</b>	If swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.
<b>Skin contact:</b>	Remove contaminated clothing immediately. Rinse the skin thoroughly with soap and water. Do NOT use solvents or thinners.
<b>Eye contact:</b>	Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart. Remove contact lenses, if any. Seek medical advice.

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## 5. Fire fighting measures

<b>Special hazards during fire fighting</b>	As the product contains combustible organic components, fire will produce dense black smoke containing hazardous products of combustion (see section 10). Exposure to decomposition products may be a hazard to health. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses.
<b>Special protective equipment for fire fighters</b>	In the event of fire, wear self-contained breathing apparatus.
<b>Suitable extinguishing media</b>	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Keep containers and surroundings cool with water spray.
<b>Extinguishing media which must not be used for safety reasons</b>	Do NOT use water jet.

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## 6. Accidental spill / release measures

<b>Personal precautions</b>	Use personal protective equipment. Ventilate the area. Refer to protective measures listed in sections 7 and 8. Wear respiratory protection. Beware of vapours accumulation to form explosive concentrations. Vapours can accumulate in low areas. Remove all sources of ignition.
<b>Environmental precautions</b>	Try to prevent the material from entering drains or water courses. If the product contaminates rivers and lakes or drains, inform respective authorities.
<b>Methods for cleaning up</b>	Clean with detergents. Avoid solvents. Contain and collect spillage with non-combustible absorbent material, and place in container for disposal according to local or national regulations (see section 13).
<b>Additional advice</b>	Refer to section 15 for specific national regulation.

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## 7. Handling and storage

<b>Handling:</b>	Avoid exceeding of the given occupational exposure limits (see section 8). Use only in area provided with appropriate exhaust ventilation. Avoid contact with skin, eyes and clothing. Smoking, eating and drinking should be prohibited in the application area. Avoid inhalation of vapour or mist. For personal protection see section 8.
<b>Advice on protection against fire and explosion</b>	Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits. When transferring from one container to another apply earthing measures and use conductive hose material. No sparking tools should be used. The product should only be used in areas from which all naked lights and other sources of ignition have been excluded. No smoking. The accumulation of contaminated rags and dry overspray, particularly in spray booth filters, may result in spontaneous combustion. Good housekeeping standards, regular safe removal of waste materials and regular maintenance of spray booth filters will minimise the risks of spontaneous combustion and other fire hazards.
<b>Requirements for storage areas and containers</b>	Observe the label precautions. Prevent unauthorised access. Containers which are opened must be carefully re-sealed and kept upright to prevent leakage. Store between 5°C and 25°C in a dry, well ventilated place away from sources of heat, ignition and direct sunlight. Solvent vapours are heavy air and may spread along floors. Vapours may form explosive mixtures with air. Electrical installations / materials must comply with the technological safety standards. Keep away from sources of ignition. No smoking Store in accordance with the particular national regulations (see section 15).
<b>Advice on common storage</b>	Keep away from oxidising agents and strongly acid or alkaline materials.

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## 8. Exposure controls / Personal protection

### Personal protective equipment:

<b>Respiratory protection</b>	When operators, whether spraying or not, have to work inside the spray booth, ventilation is unlikely to be sufficient to control particulates and solvent vapour in all cases. In such circumstances they should wear a compressed air-fed respirator during the spraying process and until such time as the particulates and solvent vapour concentration has fallen below the exposure limits.
<b>Hand protection</b>	For prolonged or repeated contact use protective gloves. Barrier creams may help to protect the exposed areas of skin, they should however not be applied once exposure has occurred. Skin should be washed after contact.

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<b>Eye protection</b>	Chemical resistant goggles must be worn.
<b>Skin and body protection</b>	Wear protective clothing. Working clothes must not consist of textiles, which show a dangerous melting behaviour in case of fire. Workers should wear anti-static footwear.
<b>Personal protection</b>	Enclosing glasses, safety gloves and P2A2 half-face combo mask.

## 9. Physical and chemical properties

**Appearance:** Viscous  
**Colour:** Various      **Odour:** Mild aromatic

### Important safety parameters:

<b>Boiling point / boiling range:</b>	N.A.
<b>Melting point / melting range:</b>	N.A.
<b>Flash point:</b>	38°C
<b>Flammability (solid, gaz):</b>	N.A.
<b>Flammability temperature:</b>	N.A.
<b>Auto-flammability:</b>	> 210°C
<b>Explosive properties (danger and limits):</b>	0.86% (V)
<b>Oxidizing properties:</b>	N.A.
<b>Vapour pressure:</b>	N.A.
<b>Relative density:</b>	ca. 1300~1600kg/m <sup>3</sup>
<b>Solubility:</b>	
- <b>water solubility:</b>	N.A.
- <b>fat solubility:</b>	N.A.
<b>pH value:</b>	N.A.
<b>Partition coefficient (n-octanol/water):</b>	N.A.
<b>Viscosity:</b>	N.A.

## 10. Stability and reactivity

<b>Conditions to avoid</b>	Avoid temperature above 60°C, direct sunlight and contact with sources of heat.
<b>Hazardous reactions</b>	Keep away from oxidising agents, strongly alkaline or acid materials in order to avoid exothermic reactions. Avoid moisture. Amines and alcohols cause exothermic reactions. Preparation reacts slowly with water resulting in evolution of CO <sub>2</sub> . Evolution of CO <sub>2</sub> in closed container causes overpressure and produces a risk of bursting.
<b>Hazardous decomposition products</b>	In case of fire hazardous decomposition products may be produced such as carbon dioxide, carbon monoxide, oxides of nitrogen dense black smoke.

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<b>Acute oral toxicity</b>	May cause nausea, abdominal spasms and irritation of the mucous membranes.
<b>Acute inhalation toxicity</b>	Exposure to component solvent vapours concentration in excess of the stated occupational exposure limit may result in adverse health effects. Such as mucous membrane irritation, respiratory system irritation, adverse effects on kidney, liver and central nervous system. Symptoms and signs such as headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases loss of consciousness.
<b>Skin irritation</b>	Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in desiccation of the skin. The product may be absorbed through the skin.
<b>Eye contact</b>	The liquid splashed in the eyes may cause irritation and reversible damaged.

**12. Ecological information**

The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45EC and is classified for ecotoxicological properties accordingly. See sections 2 and 15 for details.

**13. Disposal considerations**

The product should not be allowed to enter drains, water courses or the soil. Disposal together with normal waste is not allowed. Special disposal required according to local regulations.

**14. Transport information**

Transport to be in accordance with ADR for road, IMDG for sea and IATA for air transport:

<b>UN No</b>	1263
<b>Proper shipping name</b>	Paint.
<b>Class</b>	3
<b>Packing group</b>	III
<b>Label</b>	3
<b>Marine pollutant (IMDG) (P,PP,-)</b>	P
<b>Marine pollutant component (IMDG)</b>	Solvent naphtha (petroleum, light aromatic)
<b>Ems (IMDG)</b>	3-05
<b>Limited quantity (ADR)</b>	Maximum per inner pack = 5 litre Maximum per outer pack = 45 litre
<b>Limited quantity (IMDG)</b>	Maximum per inner pack = 5 litre Maximum per outer pack = 30 kg

NOTE: If pack sizes less than 450 litres, under the terms of 2.2.3.1.5, this product is not subject to the provisions of ADR.

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<b>R-phrases</b>	<b>R10</b>	Flammable.
	<b>R51/53</b>	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
	<b>R66</b>	Repeated exposure may cause skin dryness or cracking.
<b>S-phrases</b>	<b>S23</b>	Do NOT breather spray.
	<b>S38</b>	In case of insufficient ventilation, wear suitable respiratory equipment.
	<b>S61</b>	Avoid release to the environment. Refer to special instructions / safety data sheets.
<b>P-phrases</b>	<b>P99</b>	Contains ethyl methyl ketoxime. May produce an allergic reaction.
<b>VOC</b>	455.5g/litre Method = Calculated	
<b>National legislation vlarem</b>	Vlarem 2A	
<b>CPR classification</b>	K3	
<b>NER classification</b>	NER Class 0.1: 0.0% (m) NER Class 0.2: 0.6% (m) NER Class 0.3: 25.7% (m)	

**16. Other information**

Explanation of R-phrases mentioned in section 2.

<b>Solvent naphtha (petroleum, light aromatic)</b>	<b>R10</b>	Flammable.
	<b>R51/53</b>	Toxic to aquatic organisms, may cause long-term adverse effect in the aquatic environment.
	<b>R65</b>	Harmful. May cause lung damage if swallowed.
	<b>R37</b>	Irritating to respiratory system.
	<b>R66</b>	Repeated exposure may cause skin dryness or cracking.
<b>Ethyl methyl ketoxime</b>	<b>R67</b>	Vapours may cause drowsiness and dizziness.
	<b>R21</b>	Harmful in contact with skin.
	<b>R41</b>	Risk of serious damage to eyes.
	<b>R43</b>	May cause sensitisation by skin contact.
	<b>R40</b>	Limited evidence of a carcinogenic effect.

# SAFETY DATA SHEET

**Promat**

Issued: 25/07/2007

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The recommendations for use and installation of PROMAPAIN<sup>®</sup> Tie-coat have to be followed as indicated in the Promat Handbook.

The health and safety information contained herein is believed to be accurate and correct based on our current knowledge at the date of issue and no liability can be accepted for any loss, injury or damage resulting from its use. It is intended as a guide for the safe handling, storage and use under normal conditions, but does not necessarily refer to the particular requirements of a customer when further advice should be obtained.

This data sheet and the information it contains is not intended to supersede any terms or conditions of sale and does not constitute a specification. Nothing contained herein is to be construed as a recommendation for use in violation of any patent or applicable laws or regulations.