



## MATERIAL SAFETY DATA SHEET

### 1. Product Identification

Identity : **PMC Flawcheck Developer PD-31**  
(PD-31B in aerosol can packing)  
Product Use : Penetrant Inspection Developer  
Packing : One litre tin , 20 litre drums and in aerosol can packing

### 2. Composition/Information on Ingredients

Hazardous Components [Specific Chemical Identity : Common Name(s)]	OSHA PEL	ACGIH TLV	Other Limit Recommended	% (Optional)
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Ketonic Solvents	: NA	NA	NA	
Alkali earth metal carbonates	: NA	NA	NA	
Liquified Petroleum Gas (only as propellant in aerosol can)	: NA	NA	NA	

CAS No. – Based on 67-64-1

NA = Not Applicable

### 3. Hazards Identification

Route (s) of Entry - Primary routes of entry - skin and inhalation

### 4. First Aid Measures

**Swallowing** - Do not induce vomiting. Obtain medical attention **Skin** - Remove contaminated clothing. Wash skin with Soap and Water. If irritation persists or if contact has been prolonged, obtain Medical Attention. **Inhalation** - Remove to fresh air. **Eyes** – Immediately flush eyes with cool water and continue washing for at least 15 minutes obtain medical attention without delay.

#### Notes to physician :

There is no specific antidote. Treatment of Overexposure should be directed at the control of symptoms and the clinical condition of the patient. In case of massive overexposure, victim should be observed for several days for delayed effect. Any material aspirated during vomiting may cause lung injury. Therefore, emesis should not be induced mechanically or pharmacologically. If it is considered necessary to evacuate the stomach contents, this should be done by means least likely to cause aspiration (e.g. gastric lavage after endotracheal intubation )

..2/-



An ISO 9001 - 2015 CERTIFIED COMPANY  
Regn. No. RC1/RQ91/10318

#### REGD. OFFICE :

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CIN : U24110GJ1996PTC029407



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## 5. Fire Fighting Measures

Flash Point (Method used)	- Below 15°C - Not Applicable to Aerosol Cans (Abel's closed cup)
Flammable limits	- LEL NA UEL 0-15%
Extinguishing Media	- Carbon Dioxide, Foam and Water
Special Fire Fighting Procedures	- Keep Container cool with water Fire Fighters should wear self contained breathing apparatus and full protective clothing .
Unusual Fire and Explosion Hazards	- Explosion hazards exist in aerosol can, Should avoid high temperature. Fire Hazards when material comes in contact with open flame and air.

## 6. Accidental Release Measures

**Steps to be taken in case of material is Released or Spilled** - Wear eye and skin protection., contain spills immediately with inert material (sand, earth). Avoid discharge to natural water. Transfer solid diking material to suitable container for disposal. Final clean-up with suitable detergent to remove surface residue

## 7. Handling and Storage

**Handling** – Do not splash or create mists or vapour. **Storage** - Store away from high temperature and near open flames. Keep containers closed. Do not let aerosol can temperature go above 55°C, as it raises the internal pressure of can which may results bursting of the can.

**Other Precautions** – Do not throw away empty cans into fire. Do not spray near arc or flame. Use of this product in elevated temperature processes should be thoroughly evaluated to establish and maintain safe operating conditions. Wash thoroughly after handling.

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## 8. Exposure Controls / Personal Protection

**Respirator Protection** - Use approved respirator if vapour or mist is generated  
**Ventilation** - General (mechanical) room ventilation is expected to be satisfactory  
**Protective Gloves** – Chemical resistant, **Eye Protection** Monogoggles or chemical safety when possibility of splashing

**Other Protective Clothing/Equipments** – Chemical Apron, Eye Bath, Safety Shower. In case of electrical items, use flame proof equipments

## 9. Physical and Chemical Properties

Boiling Point C	- 50 to 60	Density at 25°C g/cc	0.85 - 0.90 approximate
Vapour Pressure (mm Hg)	- NA	Melting Point	NA
Vapour Density (Air = 1)	- NA	Evaporation Rate (Butyl acetate = 1)	NA
Solubility in water	- Liquids miscible with water Solid powder is soluble in Acid		
Appearance and odour	- White colour on shaking the material Sweet odour		

## 10. Stability and Reactivity

**Stability** - Stable, **Conditions to avoid** – Open Flames , avoid high temperature and hazards normally incompatible with petroleum oils. **Incompatibility (Material to avoid)** - Should avoid high temperature and open flame, **Hazardous Decompositions or Byproducts** – Burning can produce toxic vapours which are harmful if inhaled, oxides of carbon. **Hazardous Polymerization** – Data not available.

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## 11. Toxicological Information

**Swallowing** - May cause irritation of the mouth and throat , abdominal discomfort, nausea , **Skin Absorption** – Data not available **Inhalation** - Short Term harmful effects are not expected from vapour generated at ambient temperature. **Skin Contact** - Can cause irritation on skin on prolong exposure in some cases, but not to all. **Eye contact** – Can irritate moderately.

**Effect of Repeated Overexposure** - Data Not available

**Medical Conditions aggravated by Overexposure** - Data not available

**Other effect of Overexposure** - None currently known.

## 12. Ecological Information

Not Applicable

## 13. Disposal Consideration

Product contains alkali earth metallic carbonates and organic volatile solvents. Organic volatile solvents evaporates in air leaving solid residue of carbonate material which can be disposed off as ordinary waste.

Consult appropriate State and Local regulatory authorities / agencies to ascertain proper disposal of aerosol products.

## 14. Transport Information

Proper Shipping Name : **PMC Flawcheck Developer PD-31B**  
Hazard Class : 2.1  
UN No. : 1950  
Packing group/Packing Instruction : P003

Manufacturer's Name : M/s. P-Met High-Tech Company Private Limited.

Address : 1-5/6 Industrial Estate, Gorwa  
Vadodara – 390 016, Gujarat, India

Telephone Numbers : 91 265 2282326, 2281125

Emergency Telephone Number : 91 265 2282326, 2281125

Telephone Number for Information : 91 265 2282326, 2281125

Data Prepared : December 2022

Signature of Preparer : (Optional)

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## 15. Regulatory Information

**Not Applicable**

## 16. Other Information

**Label Hazard Warning** : Flammable

**Label Precautions** : Use it only in conjunction with prescribed PMC Penetrant and Clener Products as instructed in product catalogue. Spray should not come in prolonged contact with human body.

Store in normal atmospheric condition. Keep away from flame , fire and hot objects  
Do not throw empty can in fire.

- No smoking during use
- For industrial use
- Do not take internally

### Label First Aid

#### Ref. Point No. 4

**Product Use** : 1. For Inspection of All Steel plate Viz. A537-CL-1  
2. For Inspection of All Discontinuity open to the Surface of all metals/welding/casting/forging.

### Note :

The above information are provided as guidelines. It may change from one environment to another. Hence Consumer/Operator is requested to conduct and establish his own safety measures based on fact operating condition.

The information contained herein are correct to the best of our knowledge and are based on the information available to us till date. The information given herein are liable to undergo changes without any prior notice.

**Prepared by : P-Met High-Tech Company Private Limited., Vadodara , India**



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