



## MATERIAL SAFETY DATA SHEET

### PROW PROCLEAN FLUX REMOVER, PRESATURATED WIPE

#### 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME	PROW PROCLEAN FLUX REMOVER, PRESATURATED WIPE
PRODUCT NO.	#MCC-PROW
PRODUCT USE	Cleaning agent
IDENTIFICATION No.	UN3175

#### 2 HAZARDS IDENTIFICATION

##### HUMAN HEALTH

Prolonged skin contact may cause redness, irritation and dry skin. See section 11 for additional information on health hazards. Keep out of reach of children.

##### POTENTIAL HEALTH EFFECTS

##### INHALATION

May cause irritation to the respiratory system. Vapors may cause headache, fatigue, dizziness and nausea. Prolonged inhalation of high concentrations may damage respiratory system.

##### SKIN CONTACT

Prolonged and frequent contact may cause redness and irritation. Product has a defatting effect on skin. May cause skin irritation/eczema

##### EYE CONTACT

Irritating to eyes.

##### CARCINOGENICITY

This substance has no evidence of carcinogenic properties.

#### 3 COMPOSITION/INFORMATION ON INGREDIENTS

#### 4 FIRST-AID MEASURES

##### GENERAL INFORMATION

Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.

##### INHALATION

Move the exposed person to fresh air at once. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Keep the affected person warm and at rest. Get prompt medical attention.

##### INGESTION

DO NOT INDUCE VOMITING! Immediately rinse mouth and drink plenty of water (200-300 ml). Do not give victim anything to drink if they are unconscious. Consult a physician for specific advice.

##### SKIN CONTACT

For prolonged or repeated skin contact use suitable protective gloves. Wash the skin immediately with soap and water. Get medical attention if any discomfort continues.

##### EYE CONTACT

Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

#### 5 FIRE-FIGHTING MEASURES

##### EXTINGUISHING MEDIA

Use: Powder. Dry chemicals, sand, dolomite etc. Water spray, fog or mist.

##### SPECIAL FIRE FIGHTING PROCEDURES

Containers close to fire should be removed or cooled with water. Use water to keep fire exposed containers cool and disperse vapors.

##### UNUSUAL FIRE & EXPLOSION HAZARDS

HIGHLY FLAMMABLE!

## PROW PROCLEAN FLUX REMOVER, PRESATURATED WIPE

### PROTECTIVE MEASURES IN FIRE

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

FLAMMABILITY LIMIT - LOWER(%)	2.0
FLAMMABILITY LIMIT - UPPER(%)	12.7
FLASH POINT (°C)	17 TOC (Tag open cup).

## 6 ACCIDENTAL RELEASE MEASURES

### PERSONAL PRECAUTIONS

Use protective gloves, goggles and suitable protective clothing. Do not smoke, use naked flames or other sources of ignition. Provide adequate ventilation.

### SPILL CLEAN UP METHODS

Wear necessary protective equipment. Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Rags and the like, moistened with flammable liquids, must be discarded into designated fireproof bucket. Collect spillage in containers, seal securely and deliver for disposal according to local regulations.

## 7 HANDLING AND STORAGE

### HANDLING

Keep away from heat, sparks and open flame. Avoid spilling, skin and eye contact. Ventilate well, avoid breathing vapors. Use approved respirator if air contamination is above accepted level.

### STORAGE

Store in tightly closed original container in a cool, dry well-ventilated place. Keep containers tightly closed. Keep away from heat, sparks and open flame.

## 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

### INGREDIENT COMMENTS

WEL = Workplace Exposure Limits

### PROTECTIVE EQUIPMENT



### ENGINEERING MEASURES

Provide adequate general and local exhaust ventilation.

### RESPIRATORY EQUIPMENT

No specific recommendation made, but respiratory protection must be used if the general level exceeds the Recommended Occupational Exposure Limit

### HAND PROTECTION

Chemical resistant gloves required for prolonged or repeated contact. Gloves of nitrile rubber, PVA or Viton are recommended.

### EYE PROTECTION

Use eye protection. Wear approved chemical safety goggles where eye exposure is reasonably probable.

### OTHER PROTECTION

Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapor contact.

### HYGIENE MEASURES

DO NOT SMOKE IN WORK AREA! Wash at the end of each work shift and before eating, smoking and using the toilet. When using do not eat, drink or smoke.

### SKIN PROTECTION

Wear apron or protective clothing in case of splashes.

## 9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Liquid
COLOR	Clear Colorless
ODOR	Odor of alcohol

**PROW PROCLEAN FLUX REMOVER, PRESATURATED WIPE**

<b>PHYSICAL DATA COMMENTS</b>	Information given concerns the major ingredient.		
<b>VOLATILITY DESCRIPTION</b>	Volatile.		
<b>SOLUBILITY</b>	Completely soluble in water		
<b>BOILING POINT (°C)</b>	77.6	<b>VAPOR DENSITY (air=1)</b>	1.82
<b>VAPOR PRESSURE</b>	39 mm Hg 20	<b>VOLATILE BY VOL. (%)</b>	100
<b>FLASH POINT (°C)</b>	17 TOC (Tag open cup).	<b>VOLATILE ORGANIC CONTENT</b>	785 g/litre

**10 STABILITY AND REACTIVITY****STABILITY**

Stable under normal temperature conditions.

**CONDITIONS TO AVOID**

Avoid heat, flames and other sources of ignition. Avoid contact with: Strong oxidising agents. Strong alkalis. Strong mineral acids.

**MATERIALS TO AVOID**

Strong oxidising substances.

**HAZARDOUS DECOMPOSITION PRODUCTS**

Fire creates: Vapors/gases/fumes of: Carbon monoxide (CO). Carbon dioxide (CO2).

**11 TOXICOLOGICAL INFORMATION**

<b>Name</b>	METHANOL
<b>Toxic Dose 1 - LD 50</b>	13000 mg/kg (oral rat)
<b>Name</b>	ETHANOL
<b>Toxic Dose 1 - LD 50</b>	7,060 mg/kg (oral rat)
<b>Toxic Conc. - LC 50</b>	20000 mg/l/4h (inh-rat)
<b>Name</b>	PROPAN-2-OL
<b>Toxic Dose 1 - LD 50</b>	5045 mg/kg (oral rat)
<b>Toxic Dose 2 - LD 50</b>	3600 mg/kg (oral-mouse)
<b>Toxic Conc. - LC 50</b>	16,000 ppm/1h (inh-rat)

**12 ECOLOGICAL INFORMATION****ECOTOXICITY**

Information given concerns the major ingredient.

<b>Name</b>	METHANOL
<b>LC 50, 96 hrs, Fish mg/l</b>	1368
<b>Name</b>	ETHANOL
<b>LC 50, 96 hrs, Fish mg/l</b>	>10,000
<b>EC 50, 48 hrs, Daphnia, mg/l</b>	7,800
<b>Name</b>	PROPAN-2-OL
<b>LC 50, 96 hrs, Fish mg/l</b>	9,640
<b>EC 50, 48 hrs, Daphnia, mg/l</b>	5102
<b>IC 50, 72 hrs, Algae, mg/l</b>	>2,000

**13 DISPOSAL CONSIDERATIONS****WASTE MANAGEMENT**

Rags and the like, moistened with flammable liquids, must be discarded into designated fireproof bucket.

**DISPOSAL METHODS**

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

**14 TRANSPORT INFORMATION**

## PROW PROCLEAN FLUX REMOVER, PRESATURATED WIPE



<b>DOT PROPER SHIPPING NAME</b>	Solids Containing a Flammable Liquid N.O.S. (Isopropanol)		
<b>DOT PROPER SHIPPING NAME</b>	Solids Containing a Flammable Liquid N.O.S. (Isopropanol)		
<b>IDENTIFICATION No.</b>	UN3175	<b>UN NO. AIR</b>	UN 3175
<b>AIR CLASS</b>	4.1	<b>AIR PACK GR.</b>	II Pkg Instr. 415

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### 15 REGULATORY INFORMATION

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### 16 OTHER INFORMATION

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#### 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.