



SAFETY DATA SHEET

PROW PROCLEAN FLUX REMOVER, PRESATURATED WIPE

According to Regulation (EC) No 1907/2006

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

PRODUCT NAME PROW PROCLEAN FLUX REMOVER, PRESATURATED WIPE

PRODUCT NO. #MCC-PROW

APPLICATION Cleaning agent

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2 HAZARDS IDENTIFICATION

Vapours may cause drowsiness and dizziness. Irritating to eyes.

CLASSIFICATION Xi;R36. R67.

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.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content	Classification
ETHANOL	200-578-6	64-17-5	30-60%	F;R11
METHANOL	200-659-6	67-56-1	1-5%	F;R11 T;R23/24/25,R39/23/24/25
PROPAN-2-OL	200-661-7	67-63-0	30-60%	F;R11 Xi;R36 R67

The Full Text for all R-Phrases are Displayed in Section 16

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

PROW PROCLEAN FLUX REMOVER, PRESATURATED WIPE

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 vapours.

UNUSUAL FIRE & EXPLOSION HAZARDS

HIGHLY FLAMMABLE!

PROTECTIVE MEASURES IN FIRE

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

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

USAGE PRECAUTIONS

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.

STORAGE PRECAUTIONS

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

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Name	Std	TWA - 8 hrs		STEL - 15 min		Notes
ETHANOL	WEL	1000 ppm	1920 mg/m ³			
METHANOL	WEL	200 ppm(Sk)	266 mg/m ³ (Sk)	250 ppm(Sk)	333 mg/m ³ (Sk)	
PROPAN-2-OL	WEL	400 ppm	999 mg/m ³	500 ppm	1250 mg/m ³	

WEL = Workplace Exposure Limit.

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 Workplace 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.

PROW PROCLEAN FLUX REMOVER, PRESATURATED WIPE**OTHER PROTECTION**

Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour 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		
COLOUR	Clear Colourless		
ODOUR	Odour of alcohol		
PHYSICAL DATA COMMENTS	Information given concerns the major ingredient.		
VOLATILITY DESCRIPTION	Volatile.		
SOLUBILITY	Completely soluble in water		
BOILING POINT (°C)	77.6	VAPOUR DENSITY (air=1)	1.82
VAPOUR PRESSURE	39 mm Hg 20	VOLATILE BY VOL. (%)	100
FLASH POINT (°C)	17 TOC (Tag open cup).	FLAMMABILITY LIMIT - LOWER(%)	2.0
FLAMMABILITY LIMIT - UPPER(%)	12.7	VOLATILE ORGANIC COMPOUND (VOC)	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: Vapours/gases/fumes of: Carbon monoxide (CO). Carbon dioxide (CO₂).

11 TOXICOLOGICAL INFORMATION**INHALATION**

May cause irritation to the respiratory system. Vapours 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.

OTHER HEALTH EFFECTS

This substance has no evidence of carcinogenic properties.

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

PROW PROCLEAN FLUX REMOVER, PRESATURATED WIPE**12 ECOLOGICAL INFORMATION****ECOTOXICITY**

Information given concerns the major ingredient.

Name	METHANOL
LC 50, 96 Hrs, FISH mg/l	1368
Name	ETHANOL
LC 50, 96 Hrs, FISH mg/l	>10,000
EC 50, 48 Hrs, DAPHNIA, mg/l	7,800
Name	PROPAN-2-OL
LC 50, 96 Hrs, FISH mg/l	9,640
EC 50, 48 Hrs, DAPHNIA, mg/l	5102
IC 50, 72 Hrs, ALGAE, mg/l	>2,000

13 DISPOSAL CONSIDERATIONS**GENERAL INFORMATION**

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

UK ROAD CLASS	4.1		
PROPER SHIPPING NAME	Solids Containing a Flammable Liquid N.O.S. (Isopropanol)		
UN NO. ROAD	UN3175	UK ROAD PACK GR.	II
UN NO. AIR	UN 3175	AIR CLASS	4.1
AIR PACK GR.	II Pkg Instr. 415		

15 REGULATORY INFORMATION**LABELLING**

Irritant

CONTAINS

ETHANOL
METHANOL
PROPAN-2-OL

RISK PHRASES

R36 Irritating to eyes.
R67 Vapours may cause drowsiness and dizziness.

SAFETY PHRASES

S25 Avoid contact with eyes.
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

PROW PROCLEAN FLUX REMOVER, PRESATURATED WIPE

S60

This material and its container must be disposed of as hazardous waste.

APPROVED CODE OF PRACTICE

Classification and Labelling of Substances and Preparations Dangerous for Supply.

GUIDANCE NOTES

Workplace Exposure Limits EH40. Introduction to Local Exhaust Ventilation HS(G)37.

16 OTHER INFORMATION

RISK PHRASES IN FULL

R11	Highly flammable.
R36	Irritating to eyes.
R23/24/25	Toxic by inhalation, in contact with skin and if swallowed.
R39/23/24/25	Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.
R67	Vapours may cause drowsiness and dizziness.

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.