

SAFETY DATA SHEET

LACOMIT STOPPING-OFF LACQUER

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name LACOMIT STOPPING-OFF LACQUER
Product No. 65441, 160058

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses Solvent based lacquer A preparation for use in surface finishing.

1.3. Details of the supplier of the safety data sheet

Supplier MacDermid plc
198 Golden Hillock Road
Birmingham
B11 2PN
tel: +44 (0) 121 606 8100
Contact Person sdsuk@macdermid.com

1.4. Emergency telephone number

24 Hour Emergency Incident Number +44 (0)1235 239 670 - NCEC (National Chemical Emergency Centre)

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical and Chemical Hazards Flam. Liq. 2 - H225
Human health Acute Tox. 4 - H312; Acute Tox. 4 - H332; Skin Irrit. 2 - H315; Eye Dam. 1 - H318; STOT SE 3 - H335; STOT RE 2 - H373; Asp. Tox. 1 - H304
Environment Not classified.

Classification (1999/45/EEC)

Xn; R20/21, R48/20, R65. Xi; R37/38, R41. F; R11.

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

2.2. Label elements

Contains XYLENE

Label In Accordance With (EC) No. 1272/2008



Signal Word

Danger

Hazard Statements

H225	Highly flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H373	May cause damage to organs through prolonged or repeated exposure.

Precautionary Statements

P210	Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P260	Do not breathe vapour/spray.

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P305+351+338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Get medical advice/attention if you feel unwell.

P314

Supplementary Precautionary Statements

P301+330+331

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+361+353

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304+340

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P403+233

Store in a well-ventilated place. Keep container tightly closed.

P501a

Dispose of contents/container in accordance with local, regional, national and/or international regulations

2.3. Other hazards

This product does not contain any PBT or vPvB substances.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

XYLENE		30-60%
CAS-No.: 1330-20-7	EC No.: 215-535-7	
Classification (EC 1272/2008) Flam. Liq. 3 - H226 Acute Tox. 4 - H312 Acute Tox. 4 - H332 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 STOT SE 3 - H335 STOT RE 2 - H373 Asp. Tox. 1 - H304	Classification (67/548/EEC) Xn;R20/21,R65,R48/20. Xi;R36/37/38. R10.	
BUTANOL-norm		10-30%
CAS-No.: 71-36-3	EC No.: 200-751-6	
Classification (EC 1272/2008) Flam. Liq. 3 - H226 Acute Tox. 4 - H302 Skin Irrit. 2 - H315 Eye Dam. 1 - H318 STOT SE 3 - H335 STOT SE 3 - H336	Classification (67/548/EEC) R10 Xn;R22 Xi;R37/38,R41 R67	
BUTYL ACETATE -norm		10-30%
CAS-No.: 123-86-4	EC No.: 204-658-1	
Classification (EC 1272/2008) Flam. Liq. 3 - H226 EUH066 STOT SE 3 - H336	Classification (67/548/EEC) R10 R66 R67	

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ACETONE		1-5%
CAS-No.: 67-64-1		EC No.: 200-662-2
Classification (EC 1272/2008) Flam. Liq. 2 - H225 EUH066 Eye Irrit. 2 - H319 STOT SE 3 - H336	Classification (67/548/EEC) F;R11 Xi;R36 R66 R67	
1-METHOXY-2-PROPANOL		1-5%
CAS-No.: 107-98-2		EC No.: 203-539-1
Classification (EC 1272/2008) Flam. Liq. 3 - H226 STOT SE 3 - H336	Classification (67/548/EEC) R10 R67	
Azo dyestuff / chromium complex		0.1-1%
CAS-No.: 97862-65-2		EC No.: 308-114-5
Classification (EC 1272/2008) Acute Tox. 4 - H302 Aquatic Chronic 2 - H411	Classification (67/548/EEC) Xn;R22. N;R51/53.	

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General information

Remove affected person from source of contamination. CAUTION! First aid personnel must be aware of own risk during rescue! NOTE! Keep affected person away from heat, sparks and flames! NOTE! Effects may be delayed. Keep affected person under observation.

Inhalation

Move the exposed person to fresh air at once. Rinse nose and mouth with water. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. If breathing stops, DO NOT USE MOUTH TO MOUTH RESCUSITATION !!! - appropriate mechanical means must be used. Keep the affected person warm and at rest. Get prompt medical attention.

Ingestion

Promptly get affected person to drink large volumes of water to dilute the swallowed chemical. Rinse nose, mouth and throat with water. DO NOT induce vomiting if swallowed chemical is dissolved in petroleum-based material. Danger of aspiration and development of chemical pneumonia. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! Get medical attention immediately!

Skin contact

Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention promptly if symptoms occur after washing.

Eye contact

Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. To hospital or eye specialist.

4.2. Most important symptoms and effects, both acute and delayed

General information

See section 11 for additional information on health hazards.

Inhalation.

Irritation of nose, throat and airway. In case of overexposure, organic solvents may depress the central nervous system causing dizziness and intoxication, and at very high concentrations unconsciousness and death.

Ingestion

May cause discomfort if swallowed. May cause stomach pain or vomiting.

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Skin contact

Skin irritation. Prolonged contact may cause redness, irritation and dry skin.

Eye contact

Irritation, burning, lachrymation, blurred vision after liquid splash. May cause blurred vision and serious eye damage.

4.3. Indication of any immediate medical attention and special treatment needed

No specific first aid measures noted.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Extinguishing media

Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

Unusual Fire & Explosion Hazards

HIGHLY FLAMMABLE! Heat may cause the containers to explode. May travel considerable distance to source of ignition and flash back. Vapour explosion and poison hazard indoors, outdoors and in sewers.

Specific hazards

The product is flammable, and heating may generate vapours which may form explosive vapour/air mixtures.

5.3. Advice for firefighters

Special Fire Fighting Procedures

Avoid breathing fire vapours. Keep up-wind to avoid fumes. Be aware of danger of explosion. Use water to keep fire exposed containers cool and disperse vapours. Cool containers exposed to flames with water until well after the fire is out. Ventilate closed spaces before entering them. Keep run-off water out of sewers and water sources. Dike for water control. If risk of water pollution occurs, notify appropriate authorities.

Protective equipment for fire-fighters

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

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Wear protective clothing as described in Section 8 of this safety data sheet. Avoid inhalation of vapours and contact with skin and eyes. Eye contact MUST be prevented by means of suitable personal protection equipment. Take precautionary measures against static discharges. Do not smoke, use open fire or other sources of ignition. Ensure suitable personal protection (including respiratory protection) during removal of spillages in a confined area. In case of spills, beware of slippery floors and surfaces.

6.2. Environmental precautions

Collect and dispose of spillage as indicated in section 13. Do not discharge into drains, water courses or onto the ground. Avoid release to the environment. Do not allow ANY environmental contamination.

6.3. Methods and material for containment and cleaning up

Wear necessary protective equipment. Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Absorb spillage with non-combustible, absorbent material. Collect spillage in containers, seal securely and deliver for disposal according to local regulations. Containers with collected spillage must be properly labelled with correct contents and hazard symbol. Runoff or release to sewer, waterway or ground is forbidden. Inform Authorities if large amounts are involved.

6.4. Reference to other sections

Wear protective clothing as described in Section 8 of this safety data sheet. Collect and dispose of spillage as indicated in section 13.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Do not handle broken packages without protective equipment. Avoid inhalation of vapours/spray and contact with skin and eyes. Use mechanical ventilation in case of handling which causes formation of vapours. Keep away from heat, sparks and open flame. Eliminate all sources of ignition. Static electricity and formation of sparks must be prevented. Use explosion proof electric equipment. Contaminated rags and cloths must be put in fireproof containers for disposal. Do not use in confined spaces without adequate ventilation and/or respirator. Do not eat, drink or smoke when using the product. Observe good chemical hygiene practices.

7.2. Conditions for safe storage, including any incompatibilities

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Flammable/combustible - Keep away from oxidisers, heat and flames. Keep away from heat, sparks and open flame. Keep separate from food, feedstuffs, fertilisers and other sensitive material. Take precautionary measures against static discharges. Protect from freezing

Storage Class

Flammable liquid storage.

7.3. Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

Min. Storage Temp (°C) 5

Max. Storage Temp (°C) 40

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Name	STD	TWA - 8 Hrs		STEL - 15 Min		Notes
1-METHOXY-2-PROPANOL	WEL	100 ppm	375 mg/m ³	150 ppm	560 mg/m ³	Sk
ACETONE	WEL	500 ppm	1210 mg/m ³	1500 ppm	3620 mg/m ³	
BUTANOL-norm	WEL			50 ppm		Sk
BUTYL ACETATE -norm	WEL	150 ppm	724 mg/m ³	200 ppm	966 mg/m ³	
XYLENE	WEL	50 ppm	220 mg/m ³	100 ppm	441 mg/m ³	Sk

WEL = Workplace Exposure Limit.

Sk = Can be absorbed through skin.

BUTYL ACETATE -norm (CAS: 123-86-4)

DNEL

Industry	Inhalation.	Short Term	Systemic Effects	960 mg/m ³
Industry	Inhalation.	Short Term	Local Effects	960 mg/m ³
Industry	Inhalation.	Long Term	Systemic Effects	480 mg/m ³
Industry	Inhalation.	Long Term	Local Effects	480 mg/m ³

REACH dossier information

PNEC

Freshwater	0.18	mg/l
Marinewater	0.018	mg/l
Intermittent release	0.36	mg/l
STP	35.6	mg/l
Sediment (Freshwater)	0.981	mg/kg
Sediment (Marinewater)	0.0981	mg/kg
Soil	0.0903	mg/kg

REACH dossier information

XYLENE (CAS: 1330-20-7)

DNEL

Industry	Inhalation.	Short Term	Systemic Effects	289 mg/m ³
Industry	Inhalation.	Short Term	Local Effects	289 mg/m ³
Industry	Dermal	Long Term	Systemic Effects	180 mg/kg/day
Industry	Inhalation.	Long Term	Systemic Effects	77 mg/m ³

REACH dossier information

PNEC

Freshwater	0.327	mg/l
Marinewater	0.327	mg/l
Intermittent release	0.327	mg/l
STP	6.58	mg/l
Sediment (Freshwater)	12.46	mg/kg
Sediment (Marinewater)	12.46	mg/kg
Soil	2.31	mg/kg

REACH dossier information

8.2. Exposure controls

Protective equipment

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Process conditions

Use engineering controls to reduce air contamination to permissible exposure level.

Engineering measures

Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded. Explosion-proof general and local exhaust ventilation.

Respiratory equipment

If ventilation is insufficient, suitable respiratory protection must be provided. At work in confined or poorly ventilated spaces, respiratory protection with air supply must be used. Seek advice from supervisor on the companies' respiratory protection standards.

Hand protection

Protective gloves must be used if there is a risk of direct contact or splash. Use protective gloves made of: Nitrile. or Viton rubber (fluor rubber).

Eye protection

Wear splash-proof eye goggles to prevent any possibility of eye contact. Contact lenses should not be worn when working with this chemical!

Other Protection

Provide eyewash station and safety shower. Wear suitable protective clothing as protection against splashing or contamination.

Hygiene measures

Wash hands at the end of each work shift and before eating, smoking and using the toilet. Promptly remove non-impervious clothing that becomes wet. Wash promptly with soap & water if skin becomes contaminated. Contaminated clothing to be placed in closed container until disposal or decontamination. Warn cleaning personnel of chemical's hazardous properties. Eating, smoking and water fountains prohibited in immediate work area. DO NOT SMOKE IN WORK AREA!

Environmental Exposure Controls

Keep container tightly sealed when not in use. Residues and empty containers should be taken care of as hazardous waste according to local and national provisions. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance	Clear liquid.
Colour	Pink. to Red.
Odour	Organic solvents.
Solubility	Slightly soluble in water.
Initial boiling point and boiling range	> 100 °C @ 760 mm Hg
Melting point (°C)	Not available.
Relative density	0.88 - 0.93 g/ml @ 20 °C
Vapour density (air=1)	Not available.
Vapour pressure	Not available.
Evaporation rate	Not available.
pH-Value, Conc. Solution	Not applicable.
Viscosity	Not available.
Solubility Value (G/100G H2O@20°C)	Not available.
Decomposition temperature (°C)	Not available.
Odour Threshold, Lower	Not available.

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Odour Threshold, Upper

Not available.

Flash point

16 °C CC (Closed cup).

Auto Ignition Temperature (°C)

Not available.

Flammability Limit - Lower(%)

Not available.

Flammability Limit - Upper(%)

Not available.

Partition Coefficient**(N-Octanol/Water)**

Not available.

Explosive properties

Not applicable.

Oxidising properties

Not applicable.

9.2. Other information**Volatile Organic Compound (VOC)** 70 %w/w

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

Stable under normal temperature conditions and recommended use.

10.2. Chemical stability

Stable under normal temperature conditions and recommended use.

10.3. Possibility of hazardous reactions

Flammable/combustible - Keep away from oxidisers, heat and flames. Avoid contact with acids and oxidising substances. Reacts violently with strong oxidising substances. Reacts violently with strong acids.

Hazardous Polymerisation

Will not polymerise.

10.4. Conditions to avoid

Avoid heat, flames and other sources of ignition. The product is flammable, and heating may generate vapours which may form explosive vapour/air mixtures.

10.5. Incompatible materials**Materials To Avoid**

Strong oxidising substances. Strong acids.

10.6. Hazardous decomposition products

None under normal conditions. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects**Acute toxicity:**

Harmful in contact with skin.

Harmful if inhaled.

Skin Corrosion/Irritation:

Causes skin irritation.

Serious eye damage/irritation:

Causes serious eye damage.

Respiratory or skin sensitisation:

No data available.

Germ cell mutagenicity:

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Does not contain any substances known to be mutagenic.

Carcinogenicity:

Does not contain any substances known to be carcinogenic.

Reproductive Toxicity:

Does not contain any substances known to be toxic to reproduction.

Specific target organ toxicity - single exposure:

May cause respiratory irritation. Respiratory irritant effects that impair function with symptoms such as cough, pain, choking, and breathing difficulties.

Specific target organ toxicity - repeated exposure:

Target Organs

No specific target organs noted

May cause damage to organs <<Organs>> through prolonged or repeated exposure.

Aspiration hazard:

Viscosity

Not available.

May be fatal if swallowed and enters airways.

Inhalation

Irritating to respiratory system. Contains organic solvents which in case of overexposure may depress the central nervous system causing dizziness and intoxication. Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious chemical pneumonia.

Ingestion

May cause nausea, headache, dizziness and intoxication. May cause discomfort if swallowed. May irritate and cause stomach pain, vomiting and diarrhoea. May cause liver and/or renal damage.

Skin contact

Irritating to skin. Prolonged contact may cause redness, irritation and dry skin.

Eye contact

Risk of serious damage to eyes. May cause severe irritation to eyes. Spray and vapour in the eyes may cause irritation and smarting. Irritation, burning, lachrymation, blurred vision after liquid splash.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

The product is not expected to be hazardous to the environment.

12.1. Toxicity

No data available.

12.2. Persistence and degradability

Degradability

There are no data on the degradability of this product.

12.3. Bioaccumulative potential

Bioaccumulative potential

No data available on bioaccumulation.

Partition coefficient

Not available.

12.4. Mobility in soil

Mobility:

The product contains organic solvents which will evaporate easily from all surfaces. The product is partly miscible with water and may spread in the aquatic environment.

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12.5. Results of PBT and vPvB assessment

This product does not contain any PBT or vPvB substances.

12.6. Other adverse effects

Not available.

SECTION 13: DISPOSAL CONSIDERATIONS

General information

When handling waste, consideration should be made to the safety precautions applying to handling of the product.

13.1. Waste treatment methods

Environmental manager must be informed of all major spillages. Dispose of waste and residues in accordance with local authority requirements. Do not allow runoff to sewer, waterway or ground. Residues and empty containers should be taken care of as hazardous waste according to local and national provisions.

SECTION 14: TRANSPORT INFORMATION

14.1. UN number

UN No. (ADR/RID/ADN)	UN1263
UN No. (IMDG)	UN1263
UN No. (ICAO)	UN1263

14.2. UN proper shipping name

Proper Shipping Name PAINT

14.3. Transport hazard class(es)

ADR/RID/ADN Class	3
ADR/RID/ADN Class	Class 3: Flammable liquids.
IMDG Class	3
ICAO Class/Division	3

Transport Labels



14.4. Packing group

ADR/RID/ADN Packing group	II
IMDG Packing group	II
ICAO Packing group	II

14.5. Environmental hazards

Environmentally Hazardous Substance/Marine Pollutant

No.

14.6. Special precautions for user

EMS	F-E, S-E
Hazard No. (ADR)	33 Highly flammable liquid (flash-point below 23°C).
Tunnel Restriction Code	(D/E)

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14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not relevant

SECTION 15: REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Statutory Instruments

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716). Control of Substances Hazardous to Health.

Approved Code Of Practice

Safety Data Sheets for Substances and Preparations. Classification and Labelling of Substances and Preparations Dangerous for Supply.

Guidance Notes

Workplace Exposure Limits EH40.

EU Legislation

Dangerous Substance Directive 67/548/EEC. Dangerous Preparations Directive 1999/45/EC. Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH). Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (CLP), amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006. Commission Regulation (EU) No 453/2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH). Regulation (EC) No 790/2009 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures (CLP).

Water hazard classification

WGK 2

15.2. Chemical Safety Assessment

No chemical safety assessment has been carried out.

SECTION 16: OTHER INFORMATION

Revision Comments

NOTE: Lines within the margin indicate significant changes from the previous revision.

Revision Date 07/03/2012

Revision 3

Safety Data Sheet Status Approved.

Signature AA

Risk Phrases In Full

R10	Flammable.
R20/21	Harmful by inhalation and in contact with skin.
R22	Harmful if swallowed.
R48/20	Harmful: danger of serious damage to health by prolonged exposure through inhalation.
R65	Harmful: may cause lung damage if swallowed.
R11	Highly flammable
R36/37/38	Irritating to eyes, respiratory system and skin.
R36	Irritating to eyes.
R37/38	Irritating to respiratory system and skin.
R66	Repeated exposure may cause skin dryness or cracking.
R41	Risk of serious damage to eyes.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R67	Vapours may cause drowsiness and dizziness.

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Hazard Statements In Full

EUH066	Repeated exposure may cause skin dryness or cracking.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H373	May cause damage to organs <<Organs>> through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.

Disclaimer

This information relates only to the specific material as supplied and may not be valid for such material if used in combination with any other material(s) or in any other process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. The data should not be construed as guaranteeing specific properties of the product described or its suitability for a particular application, nor does it make any warranty, either express or implied of merchantability for the product itself. It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use.