SAFETY DATA SHEET

1.IDENTIFICATION OF SUBSTANCE/PREPARATION AND COMPANY

PRODUCT NAME: **DURABOND** BRUSH RESTORER

PRODUCT CODE: 1845

CHEMICAL CHARACTERISATION: A complex mixture of petroleum distillates and chlorinated hydrocarbons.

PRODUCT USES: For cleaning and removing hardened paint and varnish from brushes, rollers and other painting tools.

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2. COMPOSITION/INFORMATION ON INGREDIENTS

A mixture of petroleum distillates, chlorinated hydrocarbons, surfactant and dye.

This product is not classified as a carcinogen under EC Directives and UK CHIP Regulations.

HAZARDOUS INGREDIENT	CAS No	CONTENT	RISK PHRASE	CLASS
Distillates (petroleum) clay-treated middle	64742-38-7	68%	R10, R65,51/53	Xn
Dichloromethane	75-09-2	30%	R40	Xn
Nonyl Phenyl Ethoxylate	9016-45-9	2%	R36/38,53	Xi

The Petroleum Distillate used in this product is not classified as a carcinogen under 67/548/EC and the UK "CHIP" Regulations.

3. HAZARDS IDENTIFICATION

HEALTH HAZARDS

HARMFUL: May cause lung damage if swallowed.
Dichloromethane poses a possible risk of irreversible effects through inhalation, in contact with skin and if swallowed.

PHYSICAL & CHEMICAL HAZARDS

DANGEROUS FOR THE ENVIRONMENT: Toxic to aquatic environment, may cause long term adverse effects in the aquatic environment.

FLAMMABLE: Moderate Hazard. Liquid can release vapours that can form Flammable mixtures upon heating to temperatures at or above the flash point.

FIRST AID MEASURES

INHALATION: Remove from exposure, rest and keep warm. If unconscious, place in recovery position. Seek medical help.

SKIN CONTACT: Wash area with plenty soap and water. Remove any heavily contaminated clothing. Seek advice if irritation persists.

EYE CONTACT: Flush out eyes with clean water, whilst lifting the eyelids, continue for 15 minutes or until the irritation subsides. Seek medical help if irritation persists.

INGESTION: If swallowed, **DO NOT** induce vomiting. Wash out mouth and if patient is conscious give 200ml of warm water to drink Get immediate medical help.

5. FIRE FIGHTING MEASURES

FIRE FIGHTING PROCEDURES:

Use water spray to cool surfaces exposed to the fire, and to protect personnel. If possible shut off source of fuel to the fire.

Use foam, Dry powder or water spray to extinguish the fire

FIRE PRECAUTIONS:

Avoid spraying water directly into large storage containers due to danger of boil over.

Do not use water jet as this may spread the fire.

SPECIAL PRECAUTIONS:

Fires in closed or confined spaces should be tackled by trained personnel who should wear self contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

LAND SPILL:
Eliminate sources of ignition.
Prevent liquid from entering sewers or drains.
Keep public away from the area.
Shut off source if possible without hazard.
Inform the local authority and fire service should the material enter drains, watercourses or has contaminated soil or vegetation.
Where possible contain spillage with earth, sand or absorbent spill control material.
Recover product by pumping (use an explosive proof electrical pump or pneumatic/hand pump).
If product becomes too viscous for pumping, scrape up with shovels or pails and place in suitable containers for recycling or disposal.
Consult an expert on disposal of recovered material and ensure conformity with local disposal regulations.

WATER SPILL:
Eliminate sources of ignition and request other shipping to stay clear.
Notify port or relevant authority and keep public away.
Shut of source if possible to do so without hazard. Confine if possible
Remove from surface by skimming or with suitable absorbent.
Consult an expert on disposal of recovered material and ensure conformity with local regulations.

PERSONAL PROTECTION: Please refer to section 8 for details of personal protective equipment to be worn.

7.HANDLING AND STORAGE

HANDLING:
Avoid unnecessary skin contact (use of barrier cream can be beneficial).
Where prolonged or repeated exposure is likely the use of Personal Protective Equipment may be appropriate (Face screen/goggles, impervious Nitrile gloves). See Section 8.
Ensure area is well ventilated and take care to prevent build up of static electricity.
Keep containers closed when not in use. Open slowly in order to control possible pressure release.
Do not heat, cut or weld containers even when empty as explosive vapours may be present.
If using the product in a confined space it is recommended that mechanical ventilation be employed to prevent vapour build up.

7.HANDLING AND STORAGE Continued.

STORAGE:

The design, construction and use of bulk storage and handling facilities is covered by codes of practice HSG 176 The Storage of Flammable Liquids in Tanks and HSG 51 The Storage of Flammable Liquids in Containers gives sound advice.

In Outline.

Store in a cool well-ventilated place out of direct sunlight and away from children.
Keep in original container, which should be kept closed.
Drums should be stored on their sides on racking preferably under cover, out of direct sunlight.
Care should be taken to ensure outside areas are bunded to prevent accidental release to the environment.
Smaller PET containers should be stored under cover out of direct sunlight, in well ventilated conditions, do not over stack pallets.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Control Measures: The use of dilution ventilation is recommended whenever this product is used in a confined space. Maintain a good standard of ventilation at all other times.

Occupational Exposure Limits:

Dichloromethane Maximum Exposure Limit of 100 ppm, 350mg/m3 (8 hour TWA)
Irish OELV (8 hr TWA) 50ppm 174 mg/m3
15 minute reference period 300ppm, 1060 mg/m3

Petroleum Distillates Occupational Exposure Limit of 100ppm (8 hour TWA) Short Term Exposure Limit

Personal Protective Equipment:

- For open systems where prolonged contact with skin and eyes is likely, wear safety glasses with side shields, long sleeves and chemical resistant gloves (Viton). Note that no material will provide more than short-term protection against Dichloromethane and therefore direct contact should be engineered out.
- Where contact may occur, wear safety glasses with side shields and Viton Gloves..
- Where the concentrations in air may exceed the limits given in this section, and engineering, work practice or other means of exposure reduction are not adequate, approved respirators may be necessary to prevent over exposure by inhalation. It is recommended to use half face filter mask to protect from overexposure by inhalation . Suitable filter material depends on the amount and type of chemical being handled, but filter material of Type "A" or similar may be considered suitable for use.

9. PHYSICAL & CHEMICAL PROPERTIES

These are indicative values only:

Physical State:	Liquid
Form/colour:	Clear Green Liquid
Odour:	Chlorinated
Boiling Point (Deg C)	40 - 185 Deg C
Flashpoint (PMCC)	39 Deg C
Autoignition Temperature:	400 Deg C
Explosive Limits (In Air**):**	Supports Combustion
Density (20 Deg C):	1.101
Solubility In Water	Forms an emulsion

10. STABILITY AND REACTIVITY

Stability:	Stable
Conditions to avoid Instability:	Heat (Flammable)
Materials & Conditions to avoid (Incompatibility)	Strong Oxidising Agents, plastic containers unless approved.

Hazardous Decomposition Products:

Thermal decomposition may lead to the formation of a multiplicity of compounds some of, which may be hazardous. With incomplete combustion smoke and hazardous fumes and gases, including Hydrogen chloride, phosgene and chlorine may be formed.

11. TOXICOLOGICAL INFORMATION

Acute:

Inhalation:

Inhalation of low concentrations may cause headache, nausea, un-coordination and drunkenness. High concentrations may cause bronchitis, pulmonary oedema, vomiting, numbness of the extremities, cyanosis unconsciousness and death.

Skin Contact:

Low order of toxicity, frequent or prolonged contact may irritate and cause dermatitis. Can however be absorbed through the skin.

Eye Contact:
Vapour is irritating to the eyes.

Ingestion:
Irritating to mouth and digestive tract. Vomiting and possible aspiration into the lungs may cause pulmonary oedema which could be fatal.

CHRONIC EFFECTS: May cause kidney and liver damage.

Dichloromethane is a class 3 carcinogen however working below the Maximum Exposure Limit given in section 8 will virtually eliminate any carcinogenic risk.

TOXIC DOSE - LD 50: 1600 mg/kg (oral rat)

OTHER HEALTH EFFECTS: IARC Int. Agency for Cancer Research. Consolidated carcinogen list. Carcinogen Category 3.

ROUTE OF ENTRY: Inhalation. Skin absorption. Ingestion. Skin and/or eye contact.

TARGET ORGANS: Central nervous system. Eyes. Heart & cardiovascular system. Kidneys. Liver. Respiratory system, lungs. Skin.

MEDICAL SYMPTOMS: Extreme irritation of eyes and mucous membranes, including burning and tearing. Dilated pupils. Severe skin irritation. Nausea, vomiting. Unconsciousness, possibly death. Central nervous system depression. Drowsiness, dizziness, disorientation, vertigo. Behavioral changes. Hypotension (low blood pressure).

MEDICAL CONSIDERATIONS: Skin disorders and allergies. Liver and/or kidney problems. Convulsive disorders, CNS problems. History of smoking.

12.ECOLOGICAL INFORMATION

Information based on a similar substance.

Environmental Mobility:
This substance is highly volatile and will rapidly evaporate to the air if released into the Environment.

Environmental Degradability:
Based upon data for a similar substance or estimated data.
This substance is expected to biodegrade slowly.
This substance can degrade rapidly in air.

Ecotoxicity:
Based upon data for similar substance or estimated data.
Classified as toxic for the environment following SIA guidelines.
This product will be damaging to aquatic life if released into ponds or rivers.

13.DISPOSAL CONSIDERATIONS

The following advice only applies to the product as supplied. Combination with other materials may well indicate another route of disposal. If in doubt, contact local authorities.

Empty drums should be taken for recycling, recovery or disposal through a suitably qualified or licensed contractor.

Care should in any case be to ensure compliance with EC, National and local regulations.
This product is not suitable for disposal via municipal sewers, drains or natural Rivers.

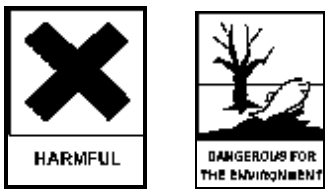
This product is ashless and can be burned directly in appropriate equipment.

14.TRANSPORT INFORMATION

Label for Conveyance	
UN Number	1992
Shipping name	Flammable Liquid Toxic NOS (White Spirit & Dichloromethane)
Class	3
Packing group	III
IMDG Code	3
CAS No	Preparation
Marine Pollutant	Yes
ADR Class	3
ADR Classification Code	FT1
Emergency Action Code	3W
Hazard Identification No	36
Limited Quantity Size	5 Litres

15.REGULATORY INFORMATION

Label for Supply



Risk Phrase	R10	Flammable
	R65	Harmful: may cause lung damage if swallowed.
	R40	Limited evidence of a carcinogenic effect.
	R52/53	Toxic to aquatic organisms, may cause long term effects in the aquatic environment.
Safety Phrase	S 2	Keep out of reach of children
	S23	Do not Breath vapour
	S 24/25	Avoid contact with skin and eyes
	S 36	Wear suitable protective clothing
	S 51	Use only in well ventilated areas.
	S62	If swallowed do not induce vomiting: seek medical advice immediately and show this container or label.
	S 56	Dispose of this material and its container to hazardous or special waste collection point.

Users of this product are reminded of their duties under the current Control of Substances Hazardous to Health Regulations and a suitable and sufficient assessment of all the risk should be undertaken before using this product. The guidelines given in the HSE publication COSHH ESSENTIALS - Easy Steps To Control Chemicals gives sound advice for deciding safe working control measures.

The base substance of this product under the Chemicals (Hazard Information and Packaging for Supply) (CHIP) Regulations is list as Distillates (petroleum) clay-treated middle CAS 64742-37-7.

CHIP Notes H and P and 4 applies to this product The Benzene content is <0.1%.

16. OTHER INFORMATION

The product should not be used for purposes other than those shown in Section 1. As the specific conditions of use are outside the suppliers control, the user is responsible for ensuring that the requirements of relevant legislation are complied with. The information contained in this safety data sheet is based on the present knowledge and the current legislation, which is transposed from EC directives 67/548 up to and including the 28th ATP on 91/155 EC. It provides guidance on health, safety and environmental aspects of the product and should not be taken as a product specification.

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Changes from last issue:	**Section 1 Change to supplier** **Section 3 additional information on health hazards** **Section 4 correction of spelling mistake** **Section 6 Information on PPE** **Section 8 Inclusion of Irish OELV** **Section 11 Additional information on toxicity and chronic effects.** **Section 16 Update of information**