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HEALTH AND SAFETY DATA SHEET

1. **PRODUCT:** MANGERS White Spirit **PAGE:** 1 of 5
REVISION: 7 **DATE:** 1.11.07
USE: A solvent for degreasing surfaces, for thinning and cleaning equipment when using solvent based decorative paints.

2. **HAZARDS IDENTIFICATION**
FLAMMABLE. HARMFUL. DANGEROUS FOR THE ENVIRONMENT. Also refer to section 11.

3. **COMPOSITION/INFORMATION ON INGREDIENTS**
Substances presenting a health or environmental hazard within the meaning of the CHIP Regulations or which are assigned Workplace Exposure Limits: -

Name	EC No	CAS No	Conc.Range	Symbol*	R-Phrases*
White Spirit	265-185-4	64742-81-1	50-100%	Xn.N	R10,51,53,65,66

* for full text see section 16.

See section 16 for information on ingredients as required by Detergents Regulation (EC) No 648/2004

4. **FIRST AID MEASURES**
General: In all cases of doubt or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.
Inhalation: Remove to fresh air, keep patient warm and at rest. If breathing has stopped, administer artificial respiration. Give nothing by mouth. If unconscious, place in the recovery position and seek medical advice.
Skin Contact: Remove contaminated clothing. Wash skin thoroughly with soap and water.
Eye Contact: Remove contact lenses. Irrigate copiously with clean, fresh water, holding the eyelids apart and seek medical advice.
Ingestion: If accidentally swallowed obtain immediate medical attention. Keep at rest. DO NOT induce vomiting.

5. **FIRE FIGHTING MEASURES**
Extinguishing Media:
Recommended: alcohol resistant foam, CO₂, powder, water spray/mist
Not to be used: water jet
Recommendations: Fire will produce dense black smoke containing hazardous products of combustion (see section 10). Exposure to decomposition products may be a hazard to health. Appropriate self contained breathing apparatus may be required. Cool closed containers exposed to fire with water spray. Do not allow run off from fire fighting to enter drains or watercourses.

6. **ACCIDENTAL RELEASE MEASURES**
Exclude sources of ignition and ventilate the area. Exclude non-essential personnel. Avoid breathing vapours. Refer to protective measures listed in sections 7 and 8. Contain and collect spillages with non-combustible absorbent materials e.g. sand, earth, vermiculite, diatomaceous earth and place in a suitable container for disposal in accordance with the waste regulations (see section 13). Do not allow to enter drains or water courses. If the product enters drains or sewers, immediately contact the local water company; in case of contamination of streams, rivers or lakes, the relevant environment agency.

7. HANDLING AND STORAGE

HANDLING: Vapours are heavier than air and may spread along floors. They may form explosive mixtures with air. Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentrations higher than the Exposure Limit Values. In addition the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard. Keep the container tightly closed. Exclude sources of heat, sparks and open flame. Non-sparking tools should be used. Avoid skin and eye contact. Avoid inhalation of vapour. Smoking, eating and drinking should be prohibited in storage and use areas. For Occupational Exposure Controls measures see section 8. Never use pressure to empty; the container is not a pressure vessel. Always keep in containers made of the same material as the supply container. Avoid the accumulation of contaminated rags. Good housekeeping standards and regular safe removal of waste materials will minimise the risks of fire hazards.

The Manual Handling Operations Regulations may apply to the handling of containers/packages of this product. To assist employers the following method of calculating the weight of any pack size is given. Take the pack size volume in litres and multiply this figure by the specific gravity value given in section 9. This will give the net weight of the product in kilograms. Allowance will then have to be made for the immediate packaging to give an approximate gross weight.

STORAGE:

Store separately from oxidising agents, strongly alkaline and strongly acidic materials.

The storage and use of this product is subject to the Dangerous Substances and Explosive Atmospheres Regulations (DSEAR).

The requirements are given in the HSE Approved Code of Practice and Guidance, Storage of Dangerous Substances: DSEAR.

Flash point above 32°C: Although the storage of these products are not subject to specific statutory requirements, the principles contained in HSE Guidance note 'Storage of Flammable Liquids in Containers', should be observed. Observe label precautions. Store between 5°C and 25°C in a dry, well ventilated place away from sources of heat, ignition and direct sunlight. No smoking. Prevent unauthorised access. Containers which are opened should be properly resealed and kept upright to prevent leakage. The principles contained in the HSE guidance note Chemical Warehousing: 'Storage of Packaged Dangerous Substances' should be observed when storing this product.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE CONTROLS: Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and/or solvent vapours below the relevant Exposure Limit Values, suitable respiratory protection must be worn (see 'Occupational Exposure Controls' below).

EXPOSURE LIMIT VALUES:

Substance	Exposure Limit Values				Notations
	8 hr LTEL (1)		15 min STEL (2)		
	ppm	mg m ⁻³	ppm	mg m ⁻³	
White Spirit	100(SUP)	600(SUP)	-	-	-

(1) Long-Term Exposure Limit - 8 hour Time Weighted Average

(2) Short-Term Exposure Limit - 15 minute reference period

(W) Workplace Exposure Limit (WEL)

(SUP) Recommended by suppliers

(A) Allocated limits by analogy with similar materials

WEL's are taken from current version of EH40, except those marked (SUP) which are assigned by supplier of the substance

OCCUPATIONAL EXPOSURE CONTROLS: All Personal Protective Equipment including Respiratory Protective Equipment used to control exposure to hazardous substances must be selected to meet the requirements of the COSHH Regulations.

RESPIRATORY PROTECTION:

If exposure of the applicator or the people nearby cannot be controlled to below the Exposure Limit Values and engineering controls and methods cannot reasonably be improved, suitable respiratory protective equipment should be used.

HAND PROTECTION: When skin exposure may occur, advice should be sought from glove suppliers on appropriate types and usage times for this product. The instructions and information provided by the glove supplier on use, storage, maintenance and replacement must be followed. Barrier creams may help to protect exposed areas of skin but are not substitutes for full physical protection. They should not be applied once exposure has occurred.

EYE PROTECTION: Eye protection designed to protect against liquid splashes should be worn.

SKIN PROTECTION: Cotton or cotton/synthetic overalls or coveralls are normally suitable. Grossly contaminated clothing should be removed and the skin washed with soap and water or a recognised skin cleaner. Regular skin inspection of users of this product is recommended. ALWAYS WASH YOUR HANDS BEFORE EATING, SMOKING OR USING THE TOILET.

9. PHYSICAL AND CHEMICAL PROPERTIES

physical state	liquid	
flash point	38°C	BS2000. Part 170
viscosity	5-10 secs	6 mm ISO 2431-1984 (23°C)
specific gravity	0.77-0.80 @ 20°C	
vapour density	Denser than air	
lower explosive limit	0.6 %v/v @ 20°C	
solubility in water	immiscible	
boiling point	150°C (initial)	

10. STABILITY AND REACTIVITY

Stable under the recommended storage and handling conditions (see section 7). In a fire, hazardous decomposition products such as smoke, carbon monoxide, carbon dioxide and oxides of nitrogen may be produced. Keep away from oxidising agents and strongly alkaline and strongly acidic materials to prevent the possibility of an exothermic reaction.

11. TOXICOLOGICAL INFORMATION

There is no data available on the product itself. The product has been assessed following the conventional method in CHIP and is classified for toxicological hazards accordingly. This takes into account, where known, delayed and immediate effects and chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact. See sections 2 and 15 for details of the resulting hazard classification.

Exposure to organic solvent vapours in excess of the stated Exposure Limit may result in adverse health effects such as irritation of the mucous membrane and respiratory system and adverse effects on the renal and central nervous system. Symptoms include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. Repeated or prolonged skin contact may lead to removal of natural fats from the skin resulting in non-allergic contact dermatitis and absorption through the skin. Splashes in the eye may cause irritation and reversible local damage. Ingestion may result in the following effects: sore throat, abdominal pain, drowsiness, nausea, vomiting and diarrhoea. Other effects may be as described for exposure to vapours. Liquid aspirated into the respiratory system during ingestion or from vomiting may result in lung damage.

12. ECOLOGICAL INFORMATION

There is no data available on the product itself. The product should not be allowed to enter drains or water courses or be deposited where it can affect ground or surface waters. The requirements of regulations made under the Pollution Prevention and Control Act may apply to the use of this product. The product has been assessed following the conventional method in CHIP and is classified for ecological hazards accordingly, see sections 2 and 15 for details. See also sections 5, 6 and 13.

Substance classified As DfE(1)	Mobility(2)	Persistence and Biodegradability(2)	Other adverse Effects
White Spirit	Immiscible in water – will spread on surface possibly affecting oxygen transfer. Likely to evaporate readily	OECD - Readily biodegradable	LC50 1-10 mg/l

(1) All substances listed in Section 3 and classified as dangerous for the environment (DfE).

(2) Information taken from suppliers' safety data sheet and relevant to impacts in the accidental release in storage, handling, use and disposal.

13. DISPOSAL CONSIDERATIONS

Do not allow into drains or water courses or dispose of where ground or surface waters may be affected.

The classification of this product, when disposed of as waste is 14 06 03. If this product is mixed with other wastes, this code may no longer apply. If mixed with other wastes, the appropriate code should be assigned. For further information contact your local waste authority.

Wastes, including emptied containers, are controlled waste and should be disposed of in accordance with regulations made under The Control of Pollution Act and The Environmental Protection Act. Using information provided in this safety data sheet, advice should be obtained from the relevant waste authority on the classification of empty containers.

14. TRANSPORT INFORMATION

Transport within users premises: - Always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Onwards transport subsequent to purchase: - Transport to be in accordance with ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air.

Proper shipping name:	White Spirit	Technical name 1:	-
UN number:	1300	Technical name 2:	-
Hazard class:	3	Marine Pollutant:	Yes
Packing Group:	III	Emergency Schedule Number:	F-E, S-E
Sub-hazard class:	-	Flashpoint:	38°C

15. REGULATORY INFORMATION

The product is classified and labelled in accordance with the CHIP Regulations as follows: -

Classification: FLAMMABLE. HARMFUL. DANGEROUS FOR THE ENVIRONMENT

Symbol: Xn.N

Names: White Spirit. EC Label. EC No 265-185-4

R Phrases:

- R10 Flammable
- R51 Toxic to aquatic organisms
- R53 May cause long term adverse effects in the aquatic environment
- R65 Harmful: may cause lung damage if swallowed
- R66 Repeated exposure may cause skin dryness or cracking

S Phrases:

- S2 Keep out of the reach of children
- S16 Keep away from sources of ignition - No smoking
- S24/25 Avoid contact with skin and eyes
- S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
- S28 After contact with skin, wash immediately with plenty of soap and water
- S29 Do not empty into drains
- S51 Use only in well ventilated areas
- S61 Avoid release to the environment
- S62 If swallowed, do not induce vomiting, seek medical advice immediately and show this container or label

The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks as required by other health and safety legislation. The provisions of the Health and Safety at Work etc. Act and the Control of Substances Hazardous to Health Regulations apply to the use of this product at work.

16. OTHER INFORMATION

Symbols and text of the R phrases in section 3: -

RISK PHRASES

- R10 Flammable
- R51 Toxic to aquatic organisms
- R53 May cause long term adverse effects in the aquatic environment
- R65 Harmful: may cause lung damage if swallowed
- R66 Repeated exposure may cause skin dryness or cracking

WARNING SYMBOLS

- Xn** Harmful
- N** Dangerous for the Environment

INFORMATION ON INGREDIENTS as required by Detergents Regulation (EC) No 648/2004

Ingredient	Concentration	CAS No	INCI name	Pharmacopoeia name
White Spirit	10% or more	64742-82-1	-	-

The information contained in the Health and Safety Data Sheet is provided in accordance with the requirements of the CHIP Regulations. The product should not be used for purposes other than those shown in section 1 without first referring to the supplier and obtaining written handling instructions. As the specific conditions of use of the product are outside the suppliers control, the user is responsible for ensuring that the requirements of relevant legislation are complied with. This information contained in the safety data sheet is based on present knowledge and current national legislation. It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications.

Further information and advice can be found in: -

The Control of Substances Hazardous to Health Regulations 2002 (SI2002:2677) and amendments
COSHH Essentials: easy steps to control chemicals (HSG193). Details of Control Guidance Sheets, which may be relevant to the particular conditions of use, can also be found in this publication.
Dangerous Substances and Explosive Atmospheres Regulations 2002 (SI 1992:2793)
ACoP - Dangerous Substances and Explosive Atmospheres Regulations 2002 (L138)
The Manual Handling Regulations 1992 (SI 1992:2793)
Chemical Warehousing: The Storage of Packaged Dangerous Substances (HSG51)
The Environmental Protection (Duty of Care) Regulations 1992 (SI 1992:2839)
A Guide to Working with Solvents (INDG 272)
HSE website www.hse.gov.uk