H. S. WALSH & SONS LTD 243 BECKENHAM ROAD BECKENHAM KENT BR3 4TS 0208 778 7061

SAFETY DATA SHEET

COLOURLESS FRIGILENE

Ref: T65150

UN NO 1263 LQ 6

Printed: 21 Oct 1999

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY

5 Hr/201h

PRODUCT NAME:

COLOURLESS FRIGILENE

PART No.:

65150

APPLICATIONS:

Intended for use as an additive to laquers. - for industrial use only.

SUPPLIER:

Wm. Canning Ltd.

Surface Finishing Division, PO Box 288, Great Hampton St.,

Birmingham B18 6AS

TEL:

0121-2368621

2 COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT NAME	CAS No.	CONTENTS	HEALTH (class)	RISK (R No.)
XYLENE	1330-20-7	30-60 %w/w	Xn	20/21, 38
BUTANOL	71-36-3	10-30 %w/w	Xn	20
BUTYL ACETATE	123-86-4	30-60 %w/w		

3 HAZARDS IDENTIFICATION

Flammable.

Harmful by inhalation and in contact with skin.

Irritating to skin.

INGESTION:

Dangerous for the ozone layer.

4 FIRST AID MEASURES

GENERAL: NOTE! Effects may be delayed. Keep affected person under observation. Move the exposed

person to fresh air at once. Perform artificial respiration if breathing has stopped. Keep the

affected person warm and at rest. Get prompt medical attention.

INHALATION: Move the exposed person to fresh air at once. Perform artificial respiration if breathing has

stopped. Keep the affected person warm and at rest. Get prompt medical attention.

NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! DO NOT induce vomiting. Get medical attention immediately. Promptly get affected personnel to drink large

volumes of water to dilute the swallowed chemical.

SKIN: Remove affected person from source of contamination. Promptly flush contaminated skin with

water. Promptly remove clothing if soaked through and flush the skin with water. Get medical

attention immediately.

EYES: Promptly wash eyes with plenty of water while lifting the eye lids. Get medical attention

immediately. Continue to rinse.

5 FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA:

Water spray, fog or mist. Foam. Alcohol resistant foam. Carbon dioxide (CO2). Dry chemicals, sand, dolomite etc. DO NOT use waterjet.

SPECIAL FIRE FIGHTING PROCEDURES:

Use water to keep fire exposed containers cool and disperse vapours. If a leak or spill has not ignited, use water spray to disperse vapours and protect men stopping the leak. Water spray may be used to flush spills away from exposures and dilute spills to non-flammable mixtures. Keep run-off water out of sewers and water sources. Dike for water control. Cool containers exposed to flames with water until well after the fire is out. Move container from fire area if it can be done without risk. Withdraw immediately in case of rising sound from venting safety device or any discoloration of tanks due to fire. Use water spray to reduce vapours. Do not get water inside container. If risk of water pollution occurs, notify appropriate authorities.

INUSUAL FIRE & EXPLOSION HAZARDS:

May explode in a fire. May develop highly toxic or corrosive fumes if heated. May travel considerable distance to source of ignition and flash back. Vapour explosion and poison hazard indoors, outdoors and in sewers.

IAZARDOUS DECOMPOSITION PRODUCTS:

Fire or high temperatures create: Toxic gases/vapours/fumes of: Carbon monoxide (CO).

Carbon dioxide (CO2). Nitrous gases (NOx).

ROTECTIVE MEASURES IN FIRE:

Self contained breathing apparatus. Full protective clothing.

ACCIDENTAL RELEASE MEASURES

ERSONAL PRECAUTIONS DURING SPILL:

Protective clothing covering all parts of the body must be used to prevent skin and eye

contact.

RECAUTIONS TO PROTECT ENVIRONMENT:

Drains must be covered to avoid sewer/river contamination. In case of major spillage alert the

emergency services and local water authority

PILL CLEANUP METHODS: Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Collect

with absorbent, non-combustible material into suitable containers. Take to a safe outdoor

area for evaporation.

HANDLING AND STORAGE

SAGE 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. Avoid acids, moisture, and combustible materials. Wear full protective clothing for prolonged exposure and/or high concentrations. Do not use contact lenses. Do not handle

broken packages without protective equipment.

TORAGE PRECAUTIONS: Flammable/combustible - Keep away from oxidizers, heat and flames. Keep in cool, dry,

ventilated storage and closed containers.

TORAGE CRITERIA: Flammable liquid storage.

EXPOSURE CONTROLS AND PERSONAL PROTECTION

IGREDIENT NAME	CAS No	STD	LT EXP	ST EXP	
			(8 hrs)	(15 min)	
YLENE	1330-20-7	OES.	100 ppm(Sk)	150 ppm(Sk)	
UTANOL	71-36-3	OES.		50 ppm(Sk)	
UTYL ACETATE	123-86-4	OES.	150 ppm	200 ppm	

ROTECTIVE EQUIPMENT:

ENTILATION:

ESPIRATORS: ROTECTIVE GLOVES:

YE PROTECTION:

THER PROTECTION:







ROCESS CONTROL MEASURES:

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

Provide adequate general and local exhaust ventilation.

Respiratory protection must be used if air concentration exceeds acceptable level.

Protective gloves and goggles must be used if there is a risk of direct contact or splash.

Wear splash-proof eye goggles to prevent any possibility of eye contact. Contact lenses

should not be worn when working with this chemical!

Provide eyewash station and safety shower. Impervious clothing, gloves and minimum 8

inches face shield. Wear appropriate clothing to prevent any possibility of skin contact with

solutions containing 10% or more of this chemical.

YGIENIC WORK ROUTINES: Wash at the end of each work shift and before eating, smoking and using the toilet. Promptly

remove any clothing that becomes wet or contaminated. Contaminated clothing to be placed in closed container until disposal or decontamination. Warn cleaning personnel of chemical's hazardous properties. Promptly remove non-impervious clothing contaminated with solid or

liquid chemical or stronger than 10% solutions.

PHYSICAL AND CHEMICAL PROPERTIES

PPEARANCE: Liquid.

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OLOUR:

Light (or pale). Yellow.

DOUR/TASTE:

Aromatic. / Alcohol.

BULK DENSITY:

Miscible with petroleum based solvents.

APOUR PRESSURE:

~8mbar @ 20 °C

0.90 - 0.95

VAPOUR DENSITY (air=1):

FLASH POINT (°C):

ISCOSITY: LASH POINT METHOD: 60 - 67 s @ 20 °C

23

AUTO IGNITION TEMPERATURE (°C): 343

SOLUBILITY DESCRIPTION:

CC (Closed cup).

FLAMMABILITY LIMIT (lower %):

LAMMABILITY LIMIT (upper %): 12

0 STABILITY AND REACTIVITY

TABILITY:

CONDITIONS TO AVOID:

Avoid: Heat, sparks, flames. Shocks and physical damage. Moisture. Static electricity. Avoid heat, flames and other sources of ignition. Strong oxidising agents. Strong mineral

MATERIALS TO AVOID:

Bases, alkalies (inorganic). Strong oxidizing agents. Strong reducing agents. Massive, solid metal. Powdered metal. Alkali metals. Alkali earth metals. Amines. Azo, diazo, hydrazine comps. Dithiocarbamates. Inorganic cyanides. Cyanohydrines. Inorganic nitrides. Inorganic halides.

IAZARDOUS DECOMPOSITION PRODUCTS:

Fire or high temperatures create: Toxic gases/vapours/fumes of: Carbon monoxide (CO).

Carbon dioxide (CO2). Nitrous gases (NOx).

can be readily absorbed through the skin.

1 TOXICOLOGICAL INFORMATION

OXICOLOGICAL INFORMATION:

Vapours are irritating to the respiratory tract and cause central nervous depression. Causes

headaches, nausea, vomiting, eye/nose/throat irritation, dizziness and vertigo.

EALTH HAZARDS, GENERAL:

EALTH WARNINGS:

Gas or vapour is harmful on prolonged exposure or in high concentration. Irritant of eyes and mucous membranes. This chemical may cause skin/eye irritation. May cause irritation to the respiratory system. Prolonged inhalation of high concentrations may damage respiratory system. May cause stomach pain or vomiting. Repeated exposure may cause chronic eye

irritation. Contact with concentrated chemical may very rapidly cause severe eye damage, possibly loss of sight. Serious damage to the lining of nose, throat and lungs. Chronic inflammation of nose, throat and bronchial tubes. Acute eczematous dermatitis, contact type erythema, oedema, papules, vesicles, bullae, crusts, desquamation). Swallowing

concentrated chemical may cause severe internal injury. Erosion of exposed front teeth.

Keratosis (thickening of the horny layer of the skin).

OUTE OF ENTRY: ARGET ORGANS: Inhalation. Ingestion. Skin and/or eye contact.

IEDICAL SYMPTOMS:

Eyes. Respiratory system, lungs. Skin. Teeth. Mucous membranes.

Extreme irritation of eyes and mucous membranes, including burning and tearing. Irritation, burning, lacrimation, blurred vision after liquid splash. Irritation of nose due to vapour or dust contact. Rhinitis (inflammation of the nasal mucous membranes). Upper respiratory irritation. General respiratory distress, unproductive cough. Delayed, often serious breathing problems. May cause suffocation. Severe skin irritation. Nausea, vomiting. Diarrhoea. Dizziness.

IEDICAL CONSIDERATIONS:

Chronic respiratory and obstructive airway diseases. Skin disorders and allergies.

Pre-existing eye problems.

2 ECOLOGICAL INFORMATION

NVIRONMENTAL HAZARDS: EGRADABILITY:

Dangerous for the environment if discharged into watercourses.

Practically biodegradable using suitably activated biological sewage treatment.

3 DISPOSAL CONSIDERATIONS

ISPOSAL METHODS:

Dispose of as Special Waste. Confirm disposal procedures with environmental engineer and local regulations. Contact specialist disposal companies.

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4 TRANSPORT INFORMATION

ENERAL:

ABEL FOR CONVEYANCE:

Segregate from oxidisers and strong mineral acids by at least one pallet distance.



OAD:

N No: AZARD CLASS (ADR): 1263

Class 3: Flammable liquids.

ADR LABEL No:

3

AIL:

AIL TRANSPORT CLASS No:

3

RAILROAD PT:

32(b)

EA:

EA TRANSPORT CLASS No:

3.2

IMDG Page No:

3268

П

MARINE POLLUTANT:

No.

N AIR:

EA PACK GR:

IR PACK GR:

1263

AIR TRANSPORT CLASS No:

3.2

5 REGULATORY INFORMATION

ABEL FOR SUPPLY:



HARMFUL

SK PHRASES:

R-10

Flammable.

R-20/21

Harmful by inhalation and in contact with skin.

R-38

Irritating to skin.

AFETY PHRASES:

S-16

Keep away from sources of ignition - No Smoking.

S-23

Do not breathe gas/fumes/vapour/spray.

S-25

Avoid contact with eyes.

S-33

Take precautionary measures against static discharges.

K REGULATORY REFERENCES:

Classification, Packaging and Labelling Regulations 1984.

Health and Safety at Work Act 1974.

The Control of Substances Hazardous to Health Regulations 1988.

Dangerous Substance Directive 67\548. Dangerous Preparations Directive 88\379.

System of specific information relating to Dangerous Preparations. 91\155.

OTHER INFORMATION

SUED BY:

ATE:

DIRECTIVES:

Mr P Moran BSc(Hons) MSc MIOSH

EVISION No. /REPLACES SDS ISSUED:

AFETY DATA SHEET STATUS:

Approved. 02/09/97

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