

NITROMORS MASTER CRAFTSMANS PAINT AND VARNISH REMOVER

UNUSUAL FIRE & EXPLOSION HAZARDS

May develop highly toxic or corrosive fumes if heated. May form explosive or toxic mixtures with air.

SPECIFIC HAZARDS

Acrid smoke/fumes of : Carbon dioxide (CO₂). Carbon monoxide (CO). Hydrogen chloride (HCl). Phosgene (COCl₂).

6 ACCIDENTAL RELEASE MEASURES

SPILL CLEAN UP METHODS

Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Provide ventilation and confine spill. Do not allow runoff to sewer. Collect with absorbent, non-combustible material into suitable containers. Collect and reclaim or dispose in sealed containers in licensed waste. Clean-up personnel should use respiratory and/or liquid contact protection. When dealing with a spillage, please consult the section relating to suitable protective measures. Should be prevented from entering drains. Do not contaminate water sources or sewer. Inform Authorities if large amounts are involved.

7 HANDLING AND STORAGE

USAGE PRECAUTIONS

Avoid spilling, skin and eye contact. Keep away from heat, sparks and open flame. Ventilate well, avoid breathing vapours. Use approved respirator if air contamination is above accepted level. Use explosion proof electric equipment. Wear full protective clothing for prolonged exposure and/or high concentrations.

STORAGE PRECAUTIONS

Store in tightly closed original container in a cool, dry well-ventilated place. Keep in original container. Keep away from heat, sparks and open flame. Handle and open with care: pressure may occur if the container is stored in warm conditions.

STORAGE CLASS

Miscellaneous hazardous material storage.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Name	Std	LT - ppm	LT - mg/m ³	ST - ppm	ST - mg/m ³
DICHLOROMETHANE	WEL	100 ppm(Sk)	350 mg/m ³ (Sk)	300 ppm(Sk)	1060 mg/m ³ (Sk)
METHANOL	WEL	200 ppm(Sk)	266 mg/m ³ (Sk)	250 ppm(Sk)	333 mg/m ³ (Sk)

INGREDIENT COMMENTS

WEL = Workplace Exposure Limits

PROTECTIVE EQUIPMENT



ENGINEERING MEASURES

All handling to take place in well-ventilated area. Provide adequate general and local exhaust ventilation. Must not be handled in confined space without sufficient ventilation.

RESPIRATORY EQUIPMENT

Respiratory protection must be used if air contamination exceeds acceptable level. Supplied-air respirator. Self-contained breathing apparatus. Use respiratory equipment with gas filter, type AX.

HAND PROTECTION

Use protective gloves. For short term exposure Use protective gloves made of: Polyvinyl chloride (PVC). For longer term exposure wear North Silver Shield Gloves (break through time >8 hours).

EYE PROTECTION

Use approved safety goggles or face shield.

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. Wash promptly with soap & water if skin becomes contaminated. Promptly remove any clothing that becomes contaminated. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke.

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE

Liquid

NITROMORS MASTER CRAFTSMANS PAINT AND VARNISH REMOVER

COLOUR	Clear to Milky.		
ODOUR	Sweetish Chlorinated hydrocarbons.		
VOLATILITY DESCRIPTION	Volatile.		
SOLUBILITY	Slightly soluble in water. Soluble in Organic solvents		
BOILING POINT (°C)	~ 40	RELATIVE DENSITY	1.22 @ 20 °c
VAPOUR DENSITY (air=1)	(dichloromethane) 2.93	VAPOUR PRESSURE	(dichloromethane) 380 mbar @ 20 °c
EVAPORATION RATE	< 5% in 30 minutes	VISCOSITY	Brookfield <50 cps @ 20 °c
FLASH POINT (°C)	None	SOLUBILITY VALUE (g/100g H2O@20°C)	~ 7

10 STABILITY AND REACTIVITY

STABILITY

Stable under normal temperature conditions. Will decompose on red hot surfaces, in electric arcs or naked flames to evolve predominately hydrochloric acid and a trace of phosgene gas

CONDITIONS TO AVOID

Avoid heat. Avoid contact with oxidisers or reducing agents.

HAZARDOUS DECOMPOSITION PRODUCTS

Fire creates: Toxic gases/vapours/fumes of: Carbon monoxide (CO). Phosgene (COCl2). Hydrogen chloride (HCl).

11 TOXICOLOGICAL INFORMATION

TOXIC DOSE 1 - LD 50 (dichloromethane) 1600 mg/kg (oral rat)

HEALTH WARNINGS

Gas or vapour is harmful on prolonged exposure or in high concentration. This chemical may cause skin/eye irritation. CNS depressant. INHALATION. Solvent vapours are hazardous and may cause nausea, sickness and headaches. May cause irritation to the respiratory system. Narcotic effect. SKIN CONTACT. Irritating to skin. Acts as a defatting agent on skin. May cause cracking of skin, and eczema. EYE CONTACT. Irritating to eyes. INGESTION.

Swallowing concentrated chemical may cause severe internal injury. Liver and/or kidney damage. Unconsciousness, death.

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. Behavioural 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

ECOTOXICITY

Dangerous for the environment if discharged into watercourses.

LC 50, 96 Hrs, FISH mg/l 193-330 (dichloromethane)

MOBILITY

Will sink in aqueous systems. Slightly soluble in water. Will evaporate from land spillage.

BIOACCUMULATION

Not expected to bioaccumulate.

DEGRADABILITY

Slowly biodegradable in water. Slowly biodegradable in soil.

13 DISPOSAL CONSIDERATIONS

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DISPOSAL METHODS

Vent to atmosphere. Dispose of waste and residues in accordance with local authority requirements. Do not allow runoff to sewer, waterway or ground.

14 TRANSPORT INFORMATION

PROPER SHIPPING NAME	TOXIC LIQUID, ORGANIC N.O.S. (Contains dichloromethane & methanol)		
UN NO. ROAD	2810	ADR CLASS	Class 6.1: Toxic substances.
ADR PACK GROUP	III	HAZARD NO. (ADR)	60 Toxic or slightly toxic substance.
ADR LABEL NO.	6.1	RID CLASS NO.	6.1
RID PACK GROUP	III	UN NO. SEA	2810
IMDG CLASS	6.1	IMDG PACK GR.	III
EMS	F-A, S-A	MARINE POLLUTANT	No.
UN NO. AIR	2810	AIR CLASS	6.1
AIR PACK GR.	III		

15 REGULATORY INFORMATION

LABELLING



Harmful

CONTAINS

DICHLOROMETHANE
METHANOL

RISK PHRASES

R40	Limited evidence of a carcinogenic effect.
R20/21/22	Harmful by inhalation, in contact with skin and if swallowed.
R68/20/21/22	Harmful: possible risk of irreversible effects through inhalation, in contact with skin and if swallowed.

SAFETY PHRASES

P16	Can become highly flammable in use.
S23A	Do not breathe gas/fumes/vapour/spray.
S2	Keep out of the reach of children
S51	Use only in well-ventilated areas.
S52	Not recommended for interior use on large surface areas.
S3/7/9	Keep container tightly closed, in a cool, well ventilated place.
S24/25	Avoid contact with skin and eyes.
S36/37/39	Wear suitable protective clothing, gloves and eye/face protection.
S62	If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.
S13	Keep away from food, drink and animal feeding stuffs.
S18	Handle and open container with care.
S21	When using do not smoke.
S35	This material and its container must be disposed of in a safe way.

STATUTORY INSTRUMENTS

Chemicals (Hazard Information and Packaging) Regulations. Control of Substances Hazardous to Health.

APPROVED CODE OF PRACTICE

Classification and Labelling of Substances and Preparations Dangerous for Supply.

GUIDANCE NOTES

Workplace Exposure Limits EH40.

16 OTHER INFORMATION

REVISION DATE: 08-08-2006

NITROMORS MASTER CRAFTSMANS PAINT AND VARNISH REMOVER

INFORMATION SOURCES

Material Safety Data Sheet, Misc. manufacturers. Dangerous Properties of Industrial Materials Report, N.Sax et.al.

ISSUED BY

Technical Services Department, Winsford, Cheshire

REVISION DATE 08-08-2006

RISK PHRASES IN FULL

R11	Highly flammable.
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.
R40	Limited evidence of a carcinogenic effect.

DISCLAIMER

Every effort has been made to ensure that this information is accurate and up to date. , Users are reminded that they should ensure that they have retained or internally circulated the most up to date copy as provided to the persons or work locations which require them. , No warranty is implied or given as to suitability for use for any activity which is not covered by either the technical data sheet or restrictions of use as above.