

JOHN ASTLEY & SONS LTD

MATERIAL SAFETY DATA SHEET

43717 - 43721

18/01/07

NITORMORS ALL PURPOSE PAINT & VARNISH REMOVER

1. IDENTIFICATION OF CHEMICAL

Name of product: Nitromors All Purpose Paint & Varnish Remover

Product No.: 261166, 261167, 261168, 261169, 261170

Stock Code/s: 43717 to 43721

Applications: Paint & varnish remover

Manufacturer: Henkel Consumer Adhesives
Road 5, Winsford Industrial Estate
Winsford
Cheshire CW7 3QY
Tel: 01606 593933 Fax: 01606 863762
E: technical.services@henkel.co.uk

Distributor: John Astley & Sons Ltd,
Renown Avenue,
Coventry Business Park,
Coventry CV5 6UF
Tel: (024) 7685 4545. Fax: (024) 7685 4515. E-mail: sales@astleys.co.uk

2. COMPOSITION

Name	EC No.	CAS-No.	Content	Classification *
Dichloromethane	200-838-9	75-09-2	60-100%	Carc3; R40
Methanol	200-659-6	67-56-1	5-10%	F; R11 T; R23/24/25, R39/23/24/25
White Spirit	265-185-4	64742-82-1	1-5%	Xn; R65. N; R51/53. R10.R66.

* For the full text of Risk phrases see section 16

3. HAZARDS IDENTIFICATION

Main hazards: Limited evidence of a carcinogenic effect.
Harmful: possible risk of irreversible effects through inhalation, in contact with skin and if swallowed.
Product will cause irritation or pain due to strong defatting action on skin.
Will irritate eyes.

Classification: Xn; R20/21/22, R68/20/21/22. Carcinogen Category 3; R40.

4. FIRST AID MEASURES

General Information: Move the exposed person to fresh air at once.
Get medical attention if any discomfort continues.

Inhalation: Move the exposed person to fresh air at once.
Perform artificial respiration if breathing has stopped.
When breathing is difficult, properly trained personnel may assist affected person by administering oxygen.
Keep the affected person warm and at rest. Get prompt medical attention.

Ingestion: Do not induce vomiting! Never make an unconscious person vomit or drink fluids!
Remove victim immediately from source of exposure. Rinse mouth thoroughly.
Provide rest, warmth and fresh air. Get medical attention immediately!

Skin contact: Remove affected person from source of contamination. Remove contaminated clothing. Wash the skin immediately with soap and water.
Get medical attention if irritation persists after washing.

Eye contact: Make sure to remove any contact lenses from the eyes before rinsing.
Promptly wash eyes with plenty of water while lifting the eyelids.
Continue to rinse for at least 15 minutes. Contact physician if irritation persists.

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5. FIRE-FIGHTING MEASURES

Extinguishing Media: Fire can be extinguished using: Water spray, fog or mist. Alcohol resistant foam. Carbon dioxide (CO₂). Dry chemicals, sand, dolomite etc.

Special Fire Fighting Procedures: Avoid breathing fire vapours.
Use pressurised air mask if product is involved in a fire.
Cool containers exposed to flames with water until well after the fire is out.
Keep run-off water out of sewers and water sources.
Dike for water control. If risk of water pollution occurs, notify appropriate authorities.

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

Personal Precautions: Appropriate personal protective equipment (see Section 8).
Extinguish all ignition sources. Avoid sparks, flames, heat and smoking.
Ventilate. Provide ventilation and confine spill.
Clean-up personnel should use respiratory and/or liquid contact protection.

Environmental precautions: Product should be prevented from entering drains.
Do not contaminate water sources or sewer.
Inform Authorities if large amounts are involved.

Clean-up methods: Collect with absorbent, non-combustible material into suitable containers.
Collect and reclaim or dispose of in sealed containers as licensed waste.
When dealing with a spillage, please consult the section relating to suitable protective measures.
Do not allow run-off to sewer.

7. HANDLING AND STORAGE

Usage Precautions: Do not spill. Avoid 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

Occupational Exposure Limits

Ingredient Name:	Std	LT ppm	LT mg/m ³	ST ppm	ST mg/m ³
Dichloromethane	MEL	100 (Sk)	350 (Sk)	300 (Sk)	1060 (Sk)
Methanol	OES	200 (Sk)	266 (Sk)	250 (Sk)	333 (Sk)

Ingredient Comments: OES = Occupational Exposure Standard. MEL = Maximum Exposure Limit.

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

NITORMORS ALL PURPOSE PAINT & VARNISH REMOVER**Protective Equipment**

- Respiratory Equipment:** Respiratory protection must be used if air contamination exceeds acceptable level. Use Supplied-air respirator or Self-contained breathing apparatus.
- 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 or 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:** Mobile Viscous Liquid
- Colour:** Clear to Milky.
- Odour:** Sweetish Chlorinated hydrocarbons.
- Volatility Description:** Volatile.
- Solubility:** Slightly soluble in water. Soluble in Organic solvents
- Boiling Point:** 40°C
- Relative Density:** 1.22 @ 20°C
- Vapour Density:** (dichloromethane) 2.93 (Air=1)
- Vapour Pressure:** (dichloromethane) 380 mbar @20°C
- Evaporation Rate:** < 2% in 30 minutes.
- Volatile By Vol. (%)** 100
- Viscosity:** Brookfield - 3000 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.

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TOXICOLOGICAL INFORMATION.....Continued.

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

Disposal Methods:	Vent to atmosphere. Do not allow runoff to sewer, waterway or ground. Dispose of waste and residues in accordance with local authority requirements.
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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 Group.	III
EMS	F-A, S-A
Marine Pollutant	No.
UN No. Air	2810
ICAO Class	6.1
Air Pack Group.	III

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15. REGULATORY INFORMATION

Labelling:	Harmful
Contains:	Dichloromethane Methanol
Risk Phrases:	R-40 Limited evidence of a carcinogenic effect. R-20/21/22 Harmful by inhalation, in contact with skin and if swallowed. R-68/20/21/22 Harmful: possible risk of irreversible effects through inhalation, in contact with skin and if swallowed.
Safety Phrases:	P-16 Can become highly flammable in use. S-23A Do not breathe gas/fumes/vapour/spray. S-2 Keep out of the reach of children. S-51 Use only in well-ventilated areas. S-52 Not recommended for interior use on large surface areas. S-3/7/9 Keep container tightly closed, in a cool, well ventilated place. S-24/25 Avoid contact with skin and eyes. S-36/37/39 Wear suitable protective clothing, gloves and eye/face protection. S-62 If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label. S-13 Keep away from food, drink and animal feeding stuffs. S-18 Handle and open container with care. S-21 When using do not smoke. S-35 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:	Occupational Exposure Limits EH40.

16. OTHER INFORMATION

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:	18-08-2005
Risk Phrases In Full:	R-10 Flammable. R-11 Highly flammable. R-23/24/25 Toxic by inhalation, in contact with skin and if swallowed. R-39/23/24/25 Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed. R-40 Limited evidence of a carcinogenic effect. R-51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R-65 Harmful: may cause lung damage if swallowed. R-66 Repeated exposure may cause skin dryness or cracking.

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.