



# SAFETY DATA SHEET

## 2500 Hard-Hat® Clear

### 1. Identification of the substance/preparation and of the company/undertaking

**Product name and/or code** : 2500 Hard-Hat® Clear

**Manufacturer** : Rust-Oleum Netherlands BV, PO. Box 138, NL-4700 AC Roosendaal, The Netherlands  
NV Martin Mathys, Kolenberg 23, B-3545 Zelem, Belgium

**Emergency telephone number** : Rust-Oleum: (+31)165-593636; Fax (+31)165-593600  
Martin Mathys: (+32)13-460200; Fax (+32)13-460201

**Product use** : Paint.

### 2. Composition/information on ingredients

**Substance/preparation** : Preparation

Chemical name*	CAS No.	%	EC number	Classification
<b>Europe</b> Xylene (mixture of isomeres)	1330-20-7	50-100	215-535-7	R10 Xn; R20/21 Xi; R38
Dimethyl ether	115-10-6	25-50	204-065-8	F+; R12
1-Methoxy-2-propanol	107-98-2	2.5-5	203-539-1	R10
<b>See section 16 for the full text of the R Phrases declared above</b>				

\* Occupational Exposure Limit(s), if available, are listed in section 8

### 3. Hazards identification

The substance is classified as dangerous according to Directive 67/548/EEC and its amendments.

**Classification** : R12- Extremely flammable.  
R20/21- Harmful by inhalation and in contact with skin.  
R38- Irritating to skin.

### 4. First aid measures

#### 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 person warm and at rest. If not breathing, if irregular breathing, or respiratory arrest occurs provide artificial respiration or oxygen by trained personnel. Give nothing by mouth. If unconscious, place in recovery position and seek medical advice.
- Skin Contact** : Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.
- Eye Contact** : Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open.
- Ingestion** : If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do not induce vomiting.

*See section 11 for more detailed information on health effects and symptoms.*

### 5. Fire-fighting measures

- Extinguishing Media** : Recommended: alcohol resistant foam, CO<sub>2</sub>, powders, water spray.  
Not to be used : waterjet.
- Recommendations** : Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard. Appropriate breathing apparatus may be required. Bursting aerosol containers may be propelled from a fire at high speed. Cool closed containers exposed to fire with water. Do not release runoff from fire to sewers or waterways.
- Special fire-fighting procedures** : Fire-fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear. Apply water from a safe distance to cool container and protect surrounding area.
- Hazardous thermal decomposition products** : These products are carbon oxides (CO, CO<sub>2</sub>) Some metallic oxides.

## 6. Accidental release measures

- Personal precautions** : Exclude sources of ignition and ventilate the area. Avoid breathing vapor or mist. Refer to protective measures listed in sections 7 and 8.
- Spill** : Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth, and place in container for disposal according to local regulations (see section 13). Do not allow to enter drains or watercourses. Clean preferably with a detergent; avoid use of solvents. If the product contaminates lakes, rivers, or sewers, inform the appropriate authorities in accordance with local regulations.

**Note:** see section 8 for personal protective equipment and section 13 for waste disposal.

## 7. Handling and storage

- Handling** : Vapors may travel along ground and flashback along vapor trail. Vapors may form explosive mixtures with air. Prevent the creation of flammable or explosive concentrations of vapors in air and avoid vapor concentrations higher than the occupational exposure limits.
- Keep container tightly closed. Keep away from heat, sparks and flame. No sparking tools should be used.
- In addition, the product should be used only in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard.
- Avoid contact with skin and eyes. Avoid the inhalation of dust, particulates and spray mist arising from the application of this preparation. Avoid inhalation of dust from sanding.
- Eating, drinking and smoking should be prohibited in area where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking.
- Put on appropriate personal protective equipment (see Section 8).
- Comply with the health and safety at work laws.
- Storage** : Store in accordance with local regulations. Observe label precautions. Do not store above 35°C (95°F). Store in a cool, well-ventilated area away from incompatible materials and ignition sources.
- Keep away from: oxidizing agents, strong alkalis, strong acids.  
No smoking. Prevent unauthorized access. Containers that are opened must be carefully resealed and kept upright to prevent leakage.

## 8. Exposure controls/personal protection

- Engineering measures** : 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 solvent vapors below the OEL, suitable respiratory protection must be worn.
- Hygiene measures** : Keep away from food, drink and animal feeding stuffs. Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. It is generally recognized that contact lenses should not be worn when working with chemicals because contact lenses may contribute to the severity of an eye injury.

<u>Ingredient name</u>	<u>Occupational exposure limits</u>
<b>Europe</b>	
Xylene (mixture of isomers)	<b>EU OEL (Europe, 6/2000). Skin Notes: Indicative</b> STEL: 442 mg/m <sup>3</sup> 15 minute(s). STEL: 100 ppm 15 minute(s). TWA: 221 mg/m <sup>3</sup> 8 hour(s). TWA: 50 ppm 8 hour(s).
Dimethyl ether	<b>EU OEL (Europe, 6/2000). Notes: Indicative</b> TWA: 1920 mg/m <sup>3</sup> 8 hour(s). TWA: 1000 ppm 8 hour(s).
1-Methoxy-2-propanol	<b>EU OEL (Europe, 6/2000). Skin Notes: Indicative</b> STEL: 568 mg/m <sup>3</sup> 15 minute(s). STEL: 150 ppm 15 minute(s). TWA: 375 mg/m <sup>3</sup> 8 hour(s). TWA: 100 ppm 8 hour(s).

- Recommended monitoring procedures** : Air monitoring can be used to determine ventilation requirements and compliance with applicable employee exposure limits.

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**Occupational exposure controls** : Ventilation is normally required when handling or using this product. When spraying and sanding, suitable respiratory protection must be used.

### Personal protective equipment

**Respiratory system** : If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators: organic vapor (Type A) and particulate filter

**Hands** : For prolonged or repeated handling, use gloves: polyvinyl alcohol or nitrile.

Barrier creams may help to protect the exposed areas of the skin, but should not be applied once exposure has occurred.

**Skin and body** : Personnel should wear antistatic clothing made of natural fibers or of high-temperature-resistant synthetic fibers.

**Eyes** : Use safety eyewear designed to protect against splash of liquids.

## 9. Physical and chemical properties

**Physical state** : Liquid. (Aerosol.)

**Color** : Depending on product number

**Odor** : Hydrocarbon.

**Specific gravity** : 0.78 (Water = 1)

**Boiling point** : -25°C (-13°F)

**Auto-ignition temperature** : ± 350 °C

**Flash point** : - 40 °C

**Lower explosion limit** : Lower: 3% Upper: 18%

In use, may form flammable/explosive vapour-air mixture. Vapor may travel considerable distance to source of ignition and flash back.

Pressurized container: protect from sunlight and do not expose to temperature exceeding 50°C. Do not pierce or burn, even after use. Do not puncture, incinerate, store the container at temperatures above 49°C (120°F) or in direct sunlight. Container explosion may occur under fire conditions or when heated. Bursting aerosol containers may be propelled from a fire at high speed.

**Vapor pressure** : 420 kPa (propellant)

**Vapor density** : > 1

**Solubility** : Not available.

**Volatility (%)** : 86% (w/w).

**VOC (W/W):** : 662 (g/l).

## 10. Stability and reactivity

Stable under recommended storage and handling conditions (see section 7).

Hazardous decomposition products: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.

Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids.

## 11. Toxicological information

There is no data available on the preparation itself. The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and is classified for eco-toxicological properties accordingly. See Sections 2 and 15 for details.

Exposure to component solvent vapor concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Solvents may cause some of the above effects by absorption through the skin. Symptoms and signs include headaches, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin. If splashed in the eyes, the liquid may cause irritation and reversible damage.

### Potential acute health effects

**Ingestion** : No data on acute toxicity of the product when ingested.

**Inhalation** : Inhalation of high concentrations of vapour may affect the central nervous system. Exposure to high levels may cause unconsciousness. Inhalation of the spray mist may produce severe irritation of respiratory tract, characterized by coughing, choking, or shortness of breath.

**Skin contact** : Since the product is poorly absorbed, no hazardous properties are to be anticipated. However, in light of good industrial hygiene, exposure to any chemical should be kept to a minimum. Dermal contact with rapidly evaporating liquid could result in freezing of the tissues or frostbite.

**Eye contact** : This product may irritate eyes upon contact. May cause corneal opacity.

**Other toxic effects on humans** : Repeated or prolonged exposure to spray mist may produce respiratory tract irritation leading to frequent attacks of bronchial infection.

### Acute Data (LD<sub>50</sub>, LC<sub>50</sub>) - Toxicity to Test Animals

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<u>Ingredient name</u>	<u>Test</u>	<u>Result</u>	<u>Route</u>	<u>Species</u>
Xylene (mixture of isomeres)	LD50	4300 mg/kg	Oral	Rat
	LD50	2119 mg/kg	Oral	Mouse
	LD50	4300 mg/kg	Oral	Mammal
	LD50	>2000 mg/kg	Dermal	Rat
	LDLo	50 mg/kg	Oral	Human/30 min
	LC50	5000 ppm (4 hour(s))	Inhalation	Rat
	LC50	22.1 mg/l (4 hour(s))	Inhalation	Rat
	LCLo	450 ppm (hour(s))	Inhalation	Guinea pig
	Dimethyl ether	LC50	308000 mg/m <sup>3</sup> (1 hour(s))	Inhalation
LC50		386 ppm (0.5 hour(s))	Inhalation	Mouse
1-Methoxy-2-propanol	LD50	5660 mg/kg	Oral	Rat
	LD50	5700 mg/kg	Oral	Rabbit
	LD50	11700 mg/kg	Oral	Mouse
	LD50	13000 mg/kg	Dermal	Rabbit
	LDLo	3739 mg/kg	Oral	Rat
	LC50	55 mg/l (4 hour(s))	Inhalation	Rat
	LCLo	15000 ppm (7 hour(s))	Inhalation	Guinea pig
	LCLo	15000 ppm (7 hour(s))	Inhalation	Rabbit
	LCLo	7000 ppm (6 hour(s))	Inhalation	Rat

### Potential chronic health effects

<b>Carcinogenicity</b>	: No known significant effects or critical hazards.
<b>Mutagenicity</b>	: No known significant effects or critical hazards.
<b>Reproductive toxicity</b>	: No known significant effects or critical hazards.

## 12. Ecological information

There is no data available on the preparation itself.  
Do not allow to enter drains or watercourses.

The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and is not classified as dangerous for the environment.

### Ecotoxicity data

<u>Ingredient name</u>	<u>Result</u>	<u>Period</u>	<u>Species</u>
Xylene (mixture of isomeres)	Oncorhynchus mykiss (LC50)	96 hour(s)	3.3 mg/l
	Oncorhynchus mykiss (LC50)	96 hour(s)	8.2 mg/l
	Lepomis macrochirus (LC50)	96 hour(s)	8.6 mg/l
	Lepomis macrochirus (LC50)	96 hour(s)	12 mg/l
	Lepomis macrochirus (LC50)	96 hour(s)	13.3 mg/l
	Pimephales promelas (LC50)	96 hour(s)	13.4 mg/l
	1-Methoxy-2-propanol	Fathead minnow (pimephales promelas) (LC50)	96 hour(s)
Daphnia. (LC50)		96 hour(s)	23300 mg/l

<u>Ingredient name</u>	<u>Persistence/degradability</u>						<u>Bioaccumulative potential</u>		
	<u>BOD<sub>5</sub></u>	<u>COD</u>	<u>ThOD</u>	<u>Aquatic half-life</u>	<u>Photolysis</u>	<u>Biodegradability</u>	<u>LogP<sub>ow</sub></u>	<u>BCF</u>	<u>Potential</u>
Xylene (mixture of isomeres)	387000	430000 mg/l				Not readily	3.2		high
1-Methoxy-2-propanol			19.5 g O <sub>2</sub> /g	< 28 day(s)		Readily	<1		low

**Mobility** : Volatile.

## 13. Disposal considerations

Do not allow to enter drains or watercourses.  
Dispose of according to all federal, state and local applicable regulations.


<b>Methods of disposal ;</b>	: Type: Hazardous chemical waste.
<b>Waste of residues ;</b>	Location: not available
<b>Contaminated packaging</b>	Classification: H12 (Compressed or liquefied gases, flammable, N.O.S.) Disposal.: via recycling Storage: * (Storage of controlled substances must comply with applicable regulatory security requirements, Flammable materials should be stored in a separate safety storage cabinet or room. Outside or detached storage is preferred. Exclude sources of ignition and ventilate the area. Use

explosion-proof electrical (ventilating, lighting and material handling) equipment.)  
 Recycling: \* (via metal recovery)

European waste catalogue : 200122  
 (EWC)

## 14. Transport information

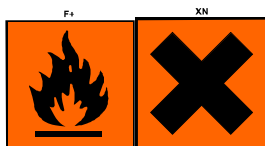
### International transport regulations

Regulatory Information	UN number	Proper shipping name	Class	Packing group	Label	Additional information
<b>ADR/RID Class</b>	1950	AEROSOLS, flammable Limited quantity	2	-		<b>Hazard identification number</b> 23  <b>Limited quantity</b> LQ2  <b>CEFIC Tremcard</b> 20G53  <b>Remarks</b> Limited Quantity - ADR/IMDG 3.4.6
<b>IMDG Class</b>	1950	AEROSOLS, flammable Limited quantity	2.1	-		<b>Emergency schedules (EmS)</b> F-D, S-U  <b>Remarks</b> Limited Quantity - ADR/IMDG 3.4.6
<b>IATA-DGR Class</b>	1950	AEROSOLS, flammable, n.o.s.	2.1	-		<b>Quantity limitation - Passenger Aircraft - Limited quantity</b> 30 kg  <b>Quantity limitation - Passenger Aircraft</b> 75 kg  <b>Quantity limitation - Cargo Aircraft</b> 150 kg  <b>Packaging instruction</b> 203 (<6 bar @ 20°C)

## 15. Regulatory information

**EU Regulations** : The product is labelled as follows, in accordance with local regulations:

**Hazard symbol(s)** :



Extremely flammable, Harmful

**Risk Phrases** :

R12- Extremely flammable.  
 R20/21- Harmful by inhalation and in contact with skin.  
 R38- Irritating to skin.

**Safety Phrases** :

S2- Keep out of the reach of children.  
 S23- Do not breathe vapor or spray.  
 S36/37- Wear suitable protective clothing and gloves.  
 S46- If swallowed, seek medical advice immediately and show this container or label.  
 S51- Use only in well-ventilated areas.

**Contains** :

Xylene (mixture of isomers)

215-535-7

**Product use** :

Classification and labeling have been performed according to EU directives 67/548/EEC, 1999/45/EC including amendments and the intended use.  
 - Consumer applications, Industrial applications, Used by Spraying.

### Other EU regulations

**Additional warning phrases** :

Pressurized container: protect from sunlight and do not expose to temperature exceeding 50°C. Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition. - Do not smoke.

**Tactile warning of danger** : Yes, applicable.

## 2500 Hard-Hat® Clear

Restriction to market directive : Not applicable.  
EC Statistical classification (Tariff Code) : 3208 10 90

## 16. Other information

Full text of R-phrases appearing in section 2: : R12- Extremely flammable.  
R10- Flammable.  
R20/21- Harmful by inhalation and in contact with skin.  
R38- Irritating to skin.  
Designation of symbols in Section 2 : F+ - Extremely flammable  
Xn - Harmful  
Xi - Irritant

### HISTORY

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Prepared by : RPM Europe - Department Environment, Health and Safety

### Notice to Reader

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