



This product is for the professional painting of vehicles only after reference to the manufacturer's data sheet.

## SAFETY DATA SHEET

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

**Product name and/or code** : **Multi Thinner Standard**

**Manufacturer** : Akzo Nobel Car Refinishes bv  
Rijksstraatweg 31  
2171 AJ Sassenheim  
The Netherlands  
Phone: +31 (0)71 308 6944  
<http://www.lesonal.com>

**Emergency telephone number of the company** : + 31 (0)71 308 6944

### 2. Composition/information on ingredients

Substances presenting a health or environmental hazard within the meaning of the Dangerous Substances Directive 67/548/EEC.

Chemical name*	CAS no.	%	EC Number	Classification
n-butyl acetate	123-86-4	10 - 25	204-658-1	R10 R66, 67
Isobutyl acetate	110-19-0	10 - 25	203-745-1	F; R11 R66
Solvent naphtha (petroleum), light arom.	64742-95-6	10 - 25	265-199-0	R10 Xn; R65 Xi; R37 R66, 67 N; R51/53
2-Methoxy-1-methylethyl acetate	108-65-6	10 - 25	203-603-9	R10 Xi; R36
4-Hydroxy-4-methylpentan-2-one	123-42-2	2.5 - 10	204-626-7	Xi; R36
See section 16 for the full text of the R Phrases declared above				

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

### 3. Hazards identification

The preparation is classified as dangerous according to Directive 1999/45/EC and its amendments.

**Classification** : R10  
Xn; R65  
Xi; R36/37  
R66, 67  
R52/53

**Additional Hazards** :

### 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 breathing is irregular or if 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 recognised 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 the container or label. Keep person warm and at rest. Do not induce vomiting.

## 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. Cool closed containers exposed to fire with water. Do not release runoff from fire to sewers or waterway

## 6. Accidental release measures

- Personal Precautions** : Exclude sources of ignition and ventilate the area. Avoid breathing vapour 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 sewage, inform 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** : Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air. Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits.

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.

To dissipate static electricity during transfer, earth drum and connect to receiving container with bonding strap. Operators should wear anti-static footwear and clothing and floors should be of the conducting type.

Keep container tightly closed. Keep away from heat, sparks and flame. No sparking tools should be used.

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).

Never use pressure to empty : container is not a pressure vessel. Always keep in containers of same material as the original one.

Comply with the health and safety at work laws.

- Storage** : Store in accordance with local regulations. Observe label precautions. Store in a cool, well-ventilated area away from incompatible materials and ignition sources.

Keep away from: OXIDISING AGENTS, strong alkalis, strong acids.

No smoking. Prevent unauthorised access. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Do not empty into drains..

- Specific uses** :

## 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 vapour below the OEL, suitable respiratory protection must be worn.

<u>Ingredient name</u>	<u>Occupational exposure limits</u>
n-butyl acetate	<b>Työterveyslaitos (Finland, 3/2002).</b> STEL: 960 mg/m <sup>3</sup> 15 minute(s). Form: All forms STEL: 200 ppm 15 minute(s). Form: All forms TWA: 720 mg/m <sup>3</sup> 8 hour(s). Form: All forms TWA: 150 ppm 8 hour(s). Form: All forms
Isobutyl acetate	<b>Työterveyslaitos (Finland, 3/2002).</b> STEL: 960 mg/m <sup>3</sup> 15 minute(s). Form: All forms STEL: 200 ppm 15 minute(s). Form: All forms TWA: 720 mg/m <sup>3</sup> 8 hour(s). Form: All forms TWA: 150 ppm 8 hour(s). Form: All forms
Solvent naphtha (petroleum), light arom.	<b>European Hydrocarbon Solvent Suppliers (CEFIC-HSPA) methodology (Europe). Notes: Suppliers information</b> TWA: 100 mg/m <sup>3</sup> 8 hour(s).
2-Methoxy-1-methylethyl acetate	<b>Työterveyslaitos (Finland, 3/2002). Skin</b> STEL: 550 mg/m <sup>3</sup> 15 minute(s). Form: All forms STEL: 100 ppm 15 minute(s). Form: All forms TWA: 270 mg/m <sup>3</sup> 8 hour(s). Form: All forms TWA: 50 ppm 8 hour(s). Form: All forms
4-Hydroxy-4-methylpentan-2-one	<b>Työterveyslaitos (Finland, 3/2002).</b> STEL: 360 mg/m <sup>3</sup> 15 minute(s). Form: All forms STEL: 75 ppm 15 minute(s). Form: All forms TWA: 240 mg/m <sup>3</sup> 8 hour(s). Form: All forms TWA: 50 ppm 8 hour(s). Form: All forms

**Personal protective equipment**

- Respiratory system** : If workers are exposed to concentrations above the exposure limit they must use appropriate, certified respirators.
- Skin and body** : Personnel should wear anti-static clothing made of natural fibre or of high temperature resistant synthetic fibre.
- Hands** : For prolonged or repeated handling, use gloves: polyvinyl alcohol or neoprene.
- Barrier creams may help to protect the exposed areas of the skin, they should however not be applied once exposure has occurred.
- Eyes** : Use safety eyewear designed to protect against splash of liquids.

**Environmental exposure control**

Do not allow to enter drains or watercourses.

**9. Physical and chemical properties**

- Physical state** : Liquid.
- Flash point** : Closed cup: 25°C (77°F).
- Viscosity** : Kinematic: 11.1235 cSt  
Kinematic (40C): 2 cSt
- Specific gravity** : 0.899 (Water = 1)
- Vapor density** : The highest known value is 4.6 (Air = 1) (2-Methoxy-1-methylethyl acetate). Weighted average: 4.22 (Air = 1)
- Lower explosion limit** : The greatest known range is Lower: 1.6% Upper: 10.5% (Isobutyl acetate)
- Solubility** : Soluble in cold water.

**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 in order to avoid strong exothermic reactions: OXIDISING AGENTS, strong alkalis, strong acids.

**11. Toxicological information**

There are 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 solvents vapours concentration 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 kidney, liver and central nervous system. Solvents may cause some of the above effects by absorption through the skin. Symptoms and signs include headache, 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. The liquid splashed in the eyes may cause irritation and reversible damage.

## 12. Ecological information

There are 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 classified for eco-toxicological properties accordingly. See Sections 2 and 15 for details.

### Ecotoxicity data

<u>Ingredient name</u>	<u>Species</u>	<u>Period</u>	<u>Result</u>
n-butyl acetate	Pimephales promelas (EC50)	48 hour(s)	19 mg/l
	Pimephales promelas (LC50)	96 hour(s)	18 mg/l
	Lepomis macrochirus (LC50)	96 hour(s)	100 mg/l
4-Hydroxy-4-methylpentan-2-one	Lepomis macrochirus (LC50)	96 hour(s)	420 mg/l

### Ecological information

#### Persistence/degradability

<u>Ingredient name</u>	<u>Aquatic half-life</u>	<u>Photolysis</u>	<u>Biodegradability</u>
Readily	-	-	Readily

## 13. Disposal considerations

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

**Hazardous waste** : The classification of the product may meet the criteria for a hazardous waste

## 14. Transport information

### Land - road/railway

**UN number** : UN1263  
**Transport document name** : PAINT RELATED MATERIAL  
**Special provision 640** : E  
**ADR/RID Class** : 3  
**Packing group** : III

**ADR/RID Label** :



### Sea

**UN number** : UN1263  
**Proper shipping name** : PAINT RELATED MATERIAL  
**Marine pollutant substances** : Solvent naphtha (petroleum), light arom.  
**IMDG Class** : 3  
**Packing group** : III

**IMDG Label** :



**Marine pollutant** : Yes.  
**Emergency schedules (EmS)** : 3 05

### Air

**UN number** : UN1263  
**Proper shipping name** : PAINT RELATED MATERIAL  
**ICAO/IATA Classification** : 3  
**Packing group** : III  
**ICAO/IATA Label** :



Inland waterways

UN number : UN1263  
Proper shipping name : PAINT RELATED MATERIAL  
ADN Classification : 3  
Packing group : III  
ADN Label :



## 15. Regulatory information

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

Hazard symbol(s) :



Harmful

Risk Phrases :

R10- Flammable.  
R65- Harmful: may cause lung damage if swallowed.  
R36/37- Irritating to eyes and respiratory system.  
R66- Repeated exposure may cause skin dryness or cracking.  
R67- Vapours may cause drowsiness and dizziness.  
R52/53- Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety Phrases :

S16- Keep away from sources of ignition - No smoking.  
S23- Do not breathe vapor/spray.  
S24- Avoid contact with skin.  
S33- Take precautionary measures against static discharges.  
S51- Use only in well-ventilated areas.

Other EU regulations

## 16. Other information

CEPE Classification : 1

Full text of R phrases referred to in sections 2 and 3 - Finland

R11- Highly flammable.  
R10- Flammable.  
R65- Harmful: may cause lung damage if swallowed.  
R36- Irritating to eyes.  
R36/37- Irritating to eyes and respiratory system.  
R37- Irritating to respiratory system.  
R66- Repeated exposure may cause skin dryness or cracking.  
R67- Vapours may cause drowsiness and dizziness.  
R51/53- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
R52/53- Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

The information in this Safety Data Sheet is required according to EU Directive 91/155/EEC and its amendments.

Date of issue : 14-03-2005.

Notice to reader

*The information of this SDS is based on the present state of our knowledge and on current EU and national laws. The product is not to be used for other purposes than those specified under section 1 without first obtaining written handling instruction. It is always the responsibility of the user to take all necessary steps in order to fulfil the demand laid down in the local rules and legislation. The information in this SDS is meant as a description of the safety requirements of our product : it is not to be considered as a guarantee of the products properties.*