



SAFETY DATA SHEET

3202 GALVINOLEUM® Adhesion coat

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

Product name and/or code : 3202 GALVINOLEUM® Adhesion coat

Manufacturer : Rust-Oleum Netherlands BV, PO. Box 138, NL-4700 AC Roosendaal, The Netherlands
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Product use : Paint.

2. Composition/information on ingredients

Substance/preparation : Preparation

Chemical name*	CAS No.	%	EC number	Classification
Europe Xylene (mixture of isomeres)	1330-20-7	50 - 100	215-535-7	R10 Xn; R20/21 Xi; R38
Ethyl acetate	141-78-6	10 - 25	205-500-4	F; R11 Xi; R36 R66, 67
1-Methoxy-2-propanol	107-98-2	10 - 25	203-539-1	R10
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 : R11- Highly flammable.
R20/21- Harmful by inhalation and in contact with skin.
R36/38- Irritating to eyes and 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, CO₂, 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 waterways.

Special fire-fighting procedures : Fire-fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.

Hazardous thermal decomposition products : These products are carbon oxides (CO, CO₂).

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 are heavier than air and may spread along floors. 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.

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.

To dissipate static electricity during transfer, ground drum and connect to receiving container with bonding strap. Operators should wear antistatic 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 made from the same material as the original one.

Comply with the health and safety at work laws.

When operators, whether spraying or not, have to work inside the spray booth, ventilation is unlikely to be sufficient to control particulates and solvent vapors in all cases. In such circumstances, they should wear a compressed-air-fed respirator during the spraying process and until the particulate and solvent-vapor concentrations have fallen below the exposure limits.

- Storage** : Store in accordance with local regulations. Observe label precautions. Do not store above 30°C (86°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.

Do not empty into drains..

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. Never eat, drink or smoke in work areas. Practice good personal hygiene when using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics. Separate contaminated work clothes from street clothes. Launder before reuse. Remove material from shoes and clean personal protective equipment. 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. Apply water proof skin cream before beginning work. After handling, always wash hands thoroughly with soap and water.

<u>Ingredient name</u>	<u>Occupational exposure limits</u>
Europe	
Xylene (mixture of isomeres)	EU OEL (Europe, 6/2000). Skin Notes: Indicative STEL: 442 mg/m ³ 15 minute(s). STEL: 100 ppm 15 minute(s). TWA: 221 mg/m ³ 8 hour(s). TWA: 50 ppm 8 hour(s).
Ethyl acetate	ACGIH TLV (United States, 5/2004). Notes: 1996 Adoption Refers to Appendix A -- Carcinogens. TWA: 1440 mg/m ³ 8 hour(s). Form: All forms TWA: 400 ppm 8 hour(s). Form: All forms
1-Methoxy-2-propanol	EU OEL (Europe, 6/2000). Skin Notes: Indicative STEL: 568 mg/m ³ 15 minute(s). STEL: 150 ppm 15 minute(s). TWA: 375 mg/m ³ 8 hour(s). TWA: 100 ppm 8 hour(s).

Recommended monitoring procedures : Air monitoring should be used to determine ventilation requirements and compliance with applicable employee exposure limits. Frequency of monitoring and levels at which suspension and re-exposure to product may take should be at the discretion of an occupational physician.

Occupational exposure controls : Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits. Ensure that eyewash stations and safety showers are proximal to the work-station location.

Personal protective equipment

Respiratory system : If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Vapor respirator or a self-contained breathing apparatus.

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. (Hazy liquid.)
Color	: Blue.
Odor	: Characteristic. Obnoxious. (Strong.)
Specific gravity	: 0.867 (Water = 1)
Melting point	: May start to solidify at <-30°C (-22°F)
Boiling point	: >80°C (176°F)
Auto-ignition temperature	: 280°C (536°F)
Flash point	: Closed cup: 18°C (64.4°F). (Setaflash.)
Lower explosion limit	: Lower: 1% Upper: 12%
	Vapor may travel considerable distance to source of ignition and flash back. When heated to decomposition it emits acrid smoke and fumes. Take precautionary measures against static discharges.
Vapor pressure	: 10 kPa (75 mm Hg) (at 20°C)
Vapor density	: >1 (Air = 1)
Evaporation rate	: 6.2 compared to Butyl acetate.
Solubility	: Partially soluble in cold water, hot water.
Viscosity	: Dynamic: 50 cP
Volatility (%)	: 93.15% (v/v). 96.74% (w/w).
VOC (W/W):	: 839 (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. See Chapters 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** : Hazardous in case of ingestion. Irritating to mouth, throat and stomach. Aspiration hazard if swallowed- can enter lungs and cause damage.
- Inhalation** : 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. Narcotic in high concentrations. Inhalation of the spray mist may produce severe irritation of respiratory tract, characterized by coughing, choking, or shortness of breath.
- Skin contact** : Hazardous in case of skin contact (irritant). Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.
- Eye contact** : This product may irritate eyes upon contact. May cause corneal opacity. Inflammation of the eye is characterized by redness, watering, and itching.
- Other toxic effects on humans** : Alcohol consumption before or after exposure may increase adverse effects. Repeated or prolonged inhalation of vapors may lead to chronic respiratory irritation. Repeated or prolonged exposure to spray mist may produce respiratory tract irritation leading to frequent attacks of bronchial infection.

Acute Data (LD₅₀, LC₅₀) - Toxicity to Test Animals

<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	>1700 mg/kg	Dermal	Rabbit
	LDLo	50 mg/kg	Oral	Human/30 min
	LC50	5000 ppm (4 hour(s))	Inhalation	Rat
Ethyl acetate	LC50	22.1 mg/l (4 hour(s))	Inhalation	Rat
	LD50	5620 mg/kg	Oral	Rat
	LD50	4935 mg/kg	Oral	Rabbit
	LD50	4100 mg/kg	Oral	Mouse
	LC50	45000 mg/m ³ (2 hour(s))	Inhalation	Mouse
1-Methoxy-2-propanol	LCLo	61000 mg/m ³ (1 hour(s))	Inhalation	Cat.
	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

- Carcinogenicity** : No known significant effects or critical hazards.
- Mutagenicity** : No known significant effects or critical hazards.
- Reproductive toxicity** : 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>
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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	
	Ethyl acetate	Pimephales promelas (EC50)	48 hour(s)	260 mg/l
		Scenedesmus subspicatus (EC50)	48 hour(s)	3300 mg/l
		Scenedesmus subspicatus (EC50)	48 hour(s)	5600 mg/l
	1-Methoxy-2-propanol	Pimephales promelas (LC50)	96 hour(s)	230 mg/l
Oncorhynchus mykiss (LC50)		96 hour(s)	425.3 mg/l	
Oncorhynchus mykiss (LC50)		96 hour(s)	484 mg/l	
Fathead minnow (pimephales promelas) (LC50)		96 hour(s)	20800 mg/l	
daphnia (LC50)		96 hour(s)	23300 mg/l	

<u>Ingredient name</u>	<u>Persistence/degradability</u>						<u>Bioaccumulative potential</u>		
	BOD ₅	COD	ThOD	Aquatic half-life	Photolysis	Biodegradability	LogP _{ow}	BCF	Potential
Xylene (mixture of isomeres)	387000 mg/l	430000 mg/l				Not readily	3.2		high
Ethyl acetate							0.7		low
1-Methoxy-2-propanol			19.5 g O ₂ /g	< 28 day(s)		Readily	<1		low

Mobility : Rapidly lost by degradation and volatilization.

13. Disposal considerations

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

Methods of disposal ; : Type: Hazardous chemical waste.
Waste of residues ; Location: European Union
Contaminated packaging Classification: H3 (Flammable liquid)
 Disposal.: via incineration
 Storage: * (Storage of controlled substances must comply with applicable regulatory security requirements, Combustible materials should be stored away from extreme heat and away from strong oxidizing agents. Inside storage should be in a standard flammable liquids storage warehouse, room or cabinet.)
 Recycling: * (Recycle to process, if possible.)


European waste catalogue (EWC) : 080111

14. Transport information

International transport regulations

Regulatory Information	UN number	Proper shipping name	Class	Packing group	Label	Additional information
ADR/RID Class	1263	Paint. Limited quantity	3	III		<u>Hazard identification number</u> 33 <u>Limited quantity</u> LQ7 <u>CEFIC Tremcard</u> 30G80 <u>Remarks</u> Limited Quantity - ADR/IMDG 3.4.6 Special provisions 640H

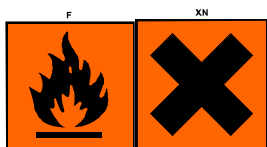
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IMDG Class	1263	Paint. Limited quantity	3	III		Emergency schedules (EmS) F-E, S-E Remarks Limited Quantity - ADR/IMDG 3.4.6 Special provisions 640H
IATA-DGR Class	1263	Paint.	3			Packaging instruction 309 / 310

15. Regulatory information

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

Hazard symbol(s) :



Highly flammable, Harmful

Risk Phrases :

R11- Highly flammable.
R20/21- Harmful by inhalation and in contact with skin.
R36/38- Irritating to eyes and skin.

Safety Phrases :

S16- Keep away from sources of ignition - No smoking.
S23- Do not breathe vapor or spray.
S25- Avoid contact with eyes.
S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36/37- Wear suitable protective clothing and gloves.
S51- Use only in well-ventilated areas.
S56- Dispose of this material and its container at hazardous or special waste collection point.

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.
- Industrial applications, Used by Spraying.

EC Statistical classification (Tariff Code) :

3208 20 10

16. Other information

Full text of R-phrases appearing in section 2:

R11- Highly flammable.
R10- Flammable.
R20/21- Harmful by inhalation and in contact with skin.
R36- Irritating to eyes.
R36/38- Irritating to eyes and skin.
R38- Irritating to skin.
R66- Repeated exposure may cause skin dryness or cracking.
R67- Vapors may cause drowsiness and dizziness.

Designation of symbols in Section 2 :

F - Highly flammable
Xn - Harmful
Xi - Irritant

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