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**MATERIAL SAFETY DATA SHEET 2006/1907/EC
SO72**

**Revision date: 02.10.08
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SDS-403/EN**

***1. IDENTIFICATION OF THE PRODUCT AND COMPANY**

1.1 Identification of the preparation: SO72 Code: 51202
1.2 Use of the preparation: Nitrocellulosic paint solvent. Only for professional use.
1.3 Company:
ROBERLO, S.A.
Carretera N-II, Km. 706,5 - E-17457 - Riudellots de la Selva (Girona) - SPAIN
Phone: +34 972 478060 - Fax: +34 972 477394 - msds@roberlo.com - www.roberlo.com
1.4 Emergency phone number: +34 91 5620420 (National Institute of Toxicology)

***2. IDENTIFICATION OF HAZARDS**

Highly flammable. Possible risk of harm to the unborn child. Harmful by inhalation. Harmful in contact with skin. Harmful if swallowed. Danger of serious damage to health by prolonged exposure. Harmful: may cause lung damage if swallowed. Irritating to eyes. Irritating to skin.

***3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substances taking part in a percentage higher than the exemption limit and presenting a health and/or environment hazard, and/or with a Communitarian workplace exposure limit:

50 < 75 %	Toluene F:R11 Repr.Cat.3:R63 Xn:R48/20-65 Xi:R38 R67	EC 203-625-9 Index No. 601-021-00-3 CAS 108-88-3
25 < 50 %	Ethyl acetate F:R11 Xi:R36 R66-R67	EC 205-500-4 Index No. 607-022-00-5 CAS 141-78-6
10 < 25 %	Methyl acetate F:R11 Xi:R36 R66-R67	EC 201-185-2 Index No. 607-021-00-X CAS 79-20-9
2,5 < 10 %	Butylglycol Xn:R20/21/22 Xi:R36/38	EC 203-905-0 Index No. 603-014-00-0 CAS 111-76-2
2,5 < 10 %	Methanol F:R11 T:R23/24/25-39/23/24/25	EC 200-659-6 Index No. 603-001-00-X CAS 67-56-1

For more information on dangerous ingredients, see sections 8, 11, 12 and 16.

4. FIRST AID MEASURES

When in doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

4.1 By inhalation: Remove the patient out of the contaminated area into the fresh air. If breathing is irregular or stops, administer artificial respiration. If the person is unconscious, place in appropriate recovery position. Keep the patient warm and at rest until medical attention arrives.

4.2 By contact with the skin: Remove contaminated clothing. Wash thoroughly the affected area with plenty of cold or lukewarm water and neutral soap, or use a suitable skin cleanser.

4.3 By contact with eyes: Remove contact lenses. Rinse eyes copiously by irrigation with plenty of clean, fresh water for at least 15 minutes, until the irritation is reduced. Call a physician immediately.

4.4 By ingestion: In case of accidental swallowing, seek immediate medical attention. Do not induce vomiting, due to the risk of aspiration. Keep the patient at rest.

5. FIRE-FIGHTING MEASURES

5.1 Means of Extinction: Extinguishing powder or CO₂. In the case of more important fires, also alcohol resistant foam and water spray/mist. Do not use for extinguishing: direct water jet.

5.2 Specific risks: As consequence of combustion or thermal decomposition, hazardous decomposition products may be produced, such as: carbon monoxide, carbon dioxide. Exposure to combustion or decomposition products may be a hazard to health.

5.3 Fire-proof protective equipment: Depending on magnitude of fire, heat-proof protective clothing may be required, appropriate independent breathing apparatus, gloves, protective glasses or face masks and boots.

5.4 Other recommendations: Cool with water the tanks, cisterns or containers close to sources of heat or fire. Bear in mind the direction of the wind. Do not allow fire-fighting residue to enter drains, sewers or water courses.

6. ACCIDENTAL SPILLAGE MEASURES

6.1 Personal precautions: Eliminate possible sources of ignition and when appropriate, ventilate the area. Do not smoke. Avoid direct contact with this product. Avoid breathing vapours. For exposure controls and personal protection measures, see section 8.

6.2 Environmental precautions: Avoid contamination of drains, surface or subterranean water and soil. In the case of large scale spills or when the product contaminates lakes, rivers or sews, inform the appropriate authorities in accordance with local regulations.

6.3 Cleaning-up methods: Contain and mop up spills with non-combustible absorbent materials (earth, sand, vermiculite, diatomaceous earth, etc..). Keep the remains in a closed container. For subsequent waste disposal, follow the recommendations in section 13.

***7. HANDLING AND STORAGE**

7.1 Handling precautions: Comply with the existing legislation on health and safety at work.

- General recommendations: Avoid any type of leakage or escape. Keep the container tightly closed.

- Recommendations for the prevention of fire and explosion risks: Vapours are heavier than air, may spread along floors to a considerable distance, can form explosive mixtures with air and are able to reach distant ignition sources and flame up or explode. Due to its flammability, this material should only be used in areas from which all naked lights and other sources of ignition have been excluded and away from other heat or electrical sources. Switch mobile phones off and do not smoke. If this product is used in an industrial installation, the zones with risk of explosion should be marked. Use instruments, systems and protective equipment adequate to the classification of zones, according to the health and safety at work laws, in accordance with Directive 94/9/EC and 99/92/EC. Electrical equipment should be protected to the appropriate standard. No tools with a potential for sparks should be used. Floors should be electrically conductive and operators should wear anti-static footwear and clothing. Elaborate the document 'Protection against explosions'.

- Flash point: -1°C Setaflash

- Autoignition temperature: 465°C

- Flammability range: 2,1-12,2 % Volume 25°C
- Recommendations for the prevention of toxicological risks: It is advisable pregnant women not be employed in any process in which this product is used. Do not eat, drink or smoke in application and drying areas. After handling, wash hands with soap and water. For exposure controls and personal protection measures, see section 8.
- Recommendations for the prevention of environmental contamination: Avoid any spillage in the environment. In the case of accidental spillage, follow the instructions indicated in section 6.
- 7.2 Storage conditions: Prevent unauthorized access. Keep out of reach of children. This product should be stored isolated from heat and electrical sources. Do not smoke in storage area. Keep away from living quarters. In order to avoid leaks, the containers, after use, should be closed carefully and placed in a vertical position. For more information, see section 10.1. Class of store: Class B1. According to ITC MIE APQ-1, RD.379/2001. Maximum storage period: 12 months. Temperature interval: min: 5°C, max: 32°C.
- Incompatible materials: Keep away from water, oxidizing agents, acids, alkalis.
- Type of packaging: According to current legislation.
- Limit quantity, in accordance with Directive 96/82/EC~2003/105/EC (Seveso III): Lower threshold: 50 tons, Upper threshold: 200 tons
- 7.3 Specific uses: For the use of this product do not exist particular recommendations apart from that already indicated.

***8. EXPOSURE CONTROLS/PERSONAL PROTECTION 98/24/EC**

8.1 Occupational Exposure Limits (TLV) AGCIH 2006

	TWA		STEL			Year
	ppm	mg/m3	ppm	mg/m3		
Toluene	50	188			A4 Dermal	1996
Ethyl acetate	400	1440				1996
Methyl acetate	200	606	250	757		1976
Butylglycol	20	98			A3	2003
Methanol	200	262	250	328	Dermal	1976

TLV - Threshold Limit Value, TWA - Time Weighted Average, STEL - Short Term Exposure Limit.

A3 - Carcinogenic in animals.

A4 - Non classified as carcinogenic in humans.

8.2 Occupational exposure controls, Directive 89/686/EEC: Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. If these measures are not sufficient to maintain concentrations of particles and vapours below the Occupational Exposure Limits, suitable respiratory protection must be worn.

- Protection of respiratory system: Avoid the inhalation of solvents. Mask: Mask for gases and vapours (EN141). In order to obtain a suitable protection level, the filter class must be selected depending on the type and concentration of the contaminating agents present, in accordance with the specifications supplied by the filter producers.
- Protection of eyes and face: Install emergency eye baths close to the working area. Goggles: Safety goggles designed to protect against liquid splashes (EN166). Face shield: No.
- Protection of hands and skin: Install emergency showers close to the working area. Barrier creams may help to protect the exposed areas of the skin. Barrier creams should not be applied once exposure has occurred. Gloves: Solvent-resistant gloves (EN374). The gloves should be immediately replaced when any sign of degradation is noted. Boots: No. Apron: No. Clothing: It is advisable personnel wear antistatic clothing made of natural fibre or of high temperature resistant synthetic fibre.

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8.3 Environmental exposure controls: Avoid any spillage in the environment of the product, wastes, packages or spraybooth sewages. Avoid any release into the atmosphere above the legal limits allowed.

***9. PHYSICAL AND CHEMICAL PROPERTIES**

- Physical state: Liquid
- Colour: Colourless
- Odour: Characteristic
- Specific gravity: 0,886 g/cc at 20°C
- Boiling point: 59°C at 760 mmHg
- Flash point: -1°C Setaflash
- Vapour pressure: 65,2 mmHg at 20°C

For additional information concerning physical and chemical properties related to safety and environment, see sections 7 and 12.

***10. STABILITY AND REACTIVITY**

10.1 Conditions to avoid: Stable under recommended storage and handling conditions.

- Heat: Keep away from sources of heat.
- Light: If possible, avoid direct contact with sunlight.
- Humidity: Avoid extreme humidity conditions.

10.2 Materials to avoid: Possible dangerous reaction with water, oxidizing agents, acids, alkalis.

10.3 Thermal decomposition: As consequence of thermal decomposition, hazardous products may be produced: carbon monoxide.

***11. TOXICOLOGICAL INFORMATION**

No experimental toxicological data on the preparation is available. The toxicological classification for these preparation has been carried out by using the conventional calculation method of the Directive 1999/45/EC.

11.1 Toxicological effects: Exposure to solvent vapour 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 kidneys, liver and central nervous system. Symptoms and signs include: headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, unconsciousness. Ingestion may result in the following effects: sore throat, abdominal pain, drowsiness, nausea, vomiting and diarrhoea; other effects may be as described for exposure to vapours. Repeated or prolonged contact with the solvents of the preparation, may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin. Liquid splashes in the eyes may cause irritation and reversible damage.

· This preparation contains glycols that are readily absorbed through the skin and may cause harmful effects on the blood.

Toxicity for reproduction: This preparation contains the following ingredients which can toxic for human reproduction: Toluene (cat.3).

11.2 Dose and lethal concentrations for individual ingredients:

	DL50 Oral		DL50 Cutaneous		CL50 Inhalation	
	mg/kg		mg/kg		mg/l.4hours	
Toluene	636	Rat	12124	Rabbit	49	Rat
Ethyl acetate	5620	Rat	18000	Rabbit	200	Rat

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	DL50 Oral mg/kg		DL50 Cutaneous mg/kg		CL50 Inhalation mg/l.4hours	
Methyl acetate	6482	Rat	>5000	Rabbit		
Butylglycol	470	Rat	220	Rabbit		
Methanol	5628	Rat	15800	Rabbit	85,3	Rat

*12. ECOLOGICAL INFORMATION

No experimental ecotoxicological data on the preparation as such is available. The ecotoxicological classification for these preparation has been carried out by using the conventional calculation method of the Directive 1999/45/EC.

12.1 Ecotoxicity for individual ingredients:

	CL50 mg/l.96hours		CE50 mg/l.48hours		CI50 mg/l.72hours	
Toluene	5,5	Fishes	12	Daphnia	134	Algae
Ethyl acetate	212	Fishes	164	Daphnia		
Methyl acetate	320	Fishes	1027	Daphnia	120	Algae
Methanol	29400	Fishes	24500	Daphnia	8000	Algae
Butylglycol	1395	Fishes	1815	Daphnia	500	Algae

12.2 Mobility: Not available.

- Spills on the soil: Prevent contamination of soil.
- Spills in water: Do not allow to escape into drains, sewers or water courses.
- Emissions to the atmosphere: Avoid any solvent release into the atmosphere.
- Product VOC: 886 g/l ASTM D-3960

12.3 Persistence and degradability: Not available.

12.4 Bioaccumulative potential: Not available.

12.5 Results of PBT assesment: Not available.

12.6 Other adverse effects: Not available.

13. CONSIDERATIONS FOR DISPOSAL

13.1 Handling of waste, Directive 75/442/EEC~91/156/EC: Take all necessary measures to prevent the production of waste whenever possible. Analyse possible methods for revaluation or recycling. Do not discharge into drains or the environment, dispose of at an authorised waste collection point. Waste should be handled and disposed of in accordance with current local/national regulations. For exposure controls and personal protection measures, see section 8.

13.2 Disposal of empty containers, Directive 94/62/EC: Emptied containers and packaging should be disposed of in accordance with currently local/national regulations.

13.3 Procedures for neutralising or destroying the product: Controlled incineration in special facilities for chemical waste, but in accordance with local regulations.

14. TRANSPORT INFORMATION

PAINT RELATED MATERIAL (VP<110 kPa50°C)

14.1 Transport by road, Directive 94/55/EC (ADR):

Transport by rail, Directive 96/49/EC (RID):

Class: 3 Packaging group: II UN no. 1263
Transport document: Consignment paper
Written instructions.

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14.2 Transport by sea (IMDG):

Class: 3	Packaging group: II	UN no. 1263
Emergency Sheet (EmS):		F-E,S_E
First Aid Guide (MFAG):		310, 313
Marine pollutant:		No
Transport document:		Shipping Bill of lading

14.3 Transport by air (ICAO/IATA):

Class: 3	Packaging group: II	UN no. 1263
Transport document:		Air Bill of lading

***15. INFORMATION ON REGULATIONS**

15.1 EC Labelling F, Xn

This product is HIGHLY FLAMMABLE and HARMFUL in accordance with Guideline 67/548/EEC and 1999/45/EC.

R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.

R36/38 Irritating to eyes and skin.

R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.

R63 Possible risk of harm to the unborn child.

R65 Harmful: may cause lung damage if swallowed.

S16 Keep away from sources of ignition - No smoking.

S23 Do not breathe vapour, spray.

S36/37 Wear suitable protective clothing and gloves.

S51 Use only in well-ventilated areas.

S62 If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

Dangerous ingredients: Toluene

15.2 Restrictions to the marketing and use in accordance with Directive 76/769/EEC: Not applicable.

15.3 Other regulations: Not available

***16. OTHER INFORMATION**

Text of R-phrases listed in section 3:

R11 Highly flammable.

R36 Irritating to eyes.

R38 Irritating to skin.

R63 Possible risk of harm to the unborn child.

R65 Harmful: may cause lung damage if swallowed.

R66 Repeated exposure may cause skin dryness or cracking.

R67 Vapours may cause drowsiness and dizziness.

R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.

R23/24/25 Toxic by inhalation, in contact with skin and if swallowed.

R36/38 Irritating to eyes and skin.

R39/23/24/25 Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.

R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.

Material Safety Data Sheet regulations: Material Safety Data Sheet in accordance with the Annex II of the Regulation (EC) No 1907/2006 (REACH).

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The information of this Material Safety Data Sheet, is based on the present state of knowledge and on current UE and national laws, as the users' working conditions are beyond our knowledge and control. The product is not to be used for other purposes than those specified, 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 Material Safety Data Sheet is meant as a description of the safety requirements of the product and it is not to be considered as a guarantee of the product's properties.
