

	NORDFLEX F0901 UNIVERSAL PUTTY Code: 74285, 74286	
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Version: 1 Date of compilation: 23/11/2012

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SECTION 1 : IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1	<p><u>PRODUCT IDENTIFIER:</u> NORDFLEX F0901 UNIVERSAL PUTTY Code: 74285, 74286</p>
1.2	<p><u>RELEVANT IDENTIFIED USES AND USES ADVISED AGAINST:</u> <u>Intended uses (main technical functions):</u> [X] Industrial [X] Professional [] Consumers Bodywork repair unsaturated polyester paste. <u>Uses advised against:</u> This product is not recommended for any use or sector of use industrial, professional or consume other than those previously listed as 'Intended or identified uses'.</p>
1.3	<p><u>DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET:</u> ROBERLO, S.A. Carretera N-II, Km. 706,5 - E-17457 - Riudellots de la Selva (Girona) Phone: +34 972 478060 - Fax: +34 972 477394 <u>E-mail address of the person responsible for the safety data sheet:</u> e-mail: msds@roberlo.com</p>
1.4	<p><u>EMERGENCY TELEPHONE NUMBER:</u> +34 972 478060 (8:00-12:45 / 14:15-17:30 h.) (working hours)</p>

SECTION 2 : HAZARDS IDENTIFICATION

2.1	<p><u>CLASSIFICATION OF THE SUBSTANCE OR MIXTURE:</u> <u>Classification in accordance with Directive 1999/45/EC~2006/8/EC (DPD):</u> R10 Xn:R20 Xi:R36/38</p>
2.2	<p><u>LABEL ELEMENTS:</u> R10 , Xn</p> <div style="display: flex; align-items: center; gap: 10px;"> <div style="border: 1px solid black; width: 40px; height: 40px; display: flex; align-items: center; justify-content: center;">  </div> <div style="border: 1px solid black; width: 40px; height: 40px; display: flex; align-items: center; justify-content: center;">  </div> <div style="border: 1px solid black; width: 40px; height: 40px; display: flex; align-items: center; justify-content: center;">  </div> </div> <p style="margin-left: 100px;">This product is labelled as FLAMMABLE and HARMFUL in accordance with Directive 67/548/EEC~2009/2/EC and 1999/45/EC~2006/8/EC</p> <p><u>R-phrases:</u> R10 Flammable. R20 Harmful by inhalation. R36/38 Irritating to eyes and skin.</p> <p><u>S-phrases:</u> S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S51 Use only in well-ventilated areas.</p> <p><u>Dangerous ingredients:</u> Styrene</p>

2.3	<p><u>OTHER HAZARDS:</u> Not available.</p>
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SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

3.1 SUBSTANCES:
Not applicable.

3.2 MIXTURES:
This product is a mixture.

Dangerous 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:

10 < 25 %

Styrene

CAS: 100-42-5 , EC: 202-851-5

REACH: 01-2119457861-32

Index No. 601-026-00-0



DSD: R10 | Xn:R20 | Xi:R36/38

< ATP12

CLP: Flam. Liq. 3:H226 | Acute Tox. (inh.) 4:H332 | Skin Irrit. 2:H315 | Eye Irrit. 2:H319 |

< REACH

STOT SE (irrit.) 3:H335 | STOT RE 1:H372iE | Asp. Tox. 1:H304

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

Substances SVHC subject to authorisation, included in Annex XIV of Regulation (EC) no. 1907/2006:

None

Substances SVHC candidate to be included in Annex XIV of Regulation (EC) no. 1907/2006:

None



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SECTION 4 : FIRST AID MEASURES

4.1 DESCRIPTION OF FIRST-AID MEASURES AND MAIN SYMPTOMS AND EFFECTS, ACUTE AND DELAYED:

4.2



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

Route of exposure	Symptoms and effects, acute and delayed	Description of first-aid measures
<u>Inhalation:</u>	Inhalation of solvent vapours may produce headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, unconsciousness. Inhalation produces irritation to mucus, coughing and breathlessness.	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.
<u>Skin:</u>	Skin contact causes redness. In case of prolonged contact, the skin may become dry.	Remove immediately contaminated clothing. Wash thoroughly the affected area with plenty of cold or lukewarm water and neutral soap, or use a suitable skin cleanser. Do not use solvents or thinners.
<u>Eyes:</u>	Contact with the eyes produces redness and pain.	Remove contact lenses. Rinse eyes copiously by irrigation with plenty of clean, fresh water for at least 15 minutes, holding the eyelids apart, until the irritation is reduced. Call a physician immediately.
<u>Ingestion:</u>	If swallowed, may cause irritation of the throat, abdominal pain, drowsiness, nausea, vomiting and diarrhoea.	If swallowed, seek immediate medical attention. Do not induce vomiting, due to the risk of aspiration. Keep the patient at rest.

4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED:

Specific treatment is necessary in case of exposition with this substance; the appropriate means with instructions must be available.

SECTION 5 : FIRE-FIGHTING MEASURES

5.1 EXTINGUISHING MEDIA:

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 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE:

Fire can produce a dense black smoke. As consequence of combustion or thermal decomposition, hazardous products may be produced: carbon monoxide, carbon dioxide. Exposure to combustion or decomposition products may be a hazard to health.

5.3 ADVICE FOR FIREFIGHTERS:

- Special 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. The standard EN469 provides a basic level of protection for chemical incidents.
- 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.

SECTION 6 : ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:

Eliminate possible sources of ignition and when appropriate, ventilate the area. Do not smoke. Avoid direct contact with this product. Avoid breathing vapours.

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 sewages, inform the appropriate authorities in accordance with local regulations.

6.3 METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP:

Contain and mop up spills with non-combustible absorbent materials (earth, sand, vermiculite, diatomaceous earth, etc..). Avoid use of solvents. Keep the remains in a closed container.



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SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1	CONTROL PARAMETERS:					
	<u>Occupational Exposure Limit Values (TLV)</u>		<u>TLV-TWA</u>		<u>TLV-STEL</u>	
	AGCIH 2010		ppm	mg/m3	ppm	mg/m3
	Styrene		20.	85.	40.	170. A4
	TLV - Threshold Limit Value, TWA - Time Weighted Average, STEL - Short Term Exposure Limit.					
	A4 - Non classified as carcinogenic in humans.					
	<u>Biological Limit Values:</u>					
Not available						
<u>Derived no-effect level (DNEL) for workers:</u>						
Not available						
<u>Predicted no-effect concentration (PNEC):</u>						
Not available						

8.2 **EXPOSURE CONTROLS:**

OCUPATIONAL EXPOSURE CONTROLS: Directive 89/686/EEC~96/58/EC:
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 particulates and vapours below the Occupational Exposure Limits, suitable respiratory protection must be worn.

Protection of respiratory system:
Avoid the inhalation of vapours. Avoid the inhalation of particles or spray mist arising from the application of this preparation.

- Mask:
Suitable combined filter mask for gases, vapours and particles (EN141/EN143). 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. The respiratory equipment with filters does not work satisfactorily when the air contains high concentrations of vapour. If mask use is not sufficient, when operators, whether spraying or not, are inside the spraybooth, and ventilation is unlikely to be sufficient to constantly control particulates and solvent vapour in all cases, in such circumstances they should wear a compressed air-fed respiratory protective equipment (EN137) during the spraying process and until such a time as the particulates and solvent vapour concentration has fallen below the exposure limits.

Protection of eyes and face:
Install emergency eye baths close to the working area.

- Goggles:
Safety goggles with suitable lateral protection (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:
Gloves resistant against chemicals (EN374). The breakthrough time of the selected glove material should be in accordance with the pretended period of use. There are several factors (for example, temperature), they do in practice the period of use of a protective gloves resistant against chemicals is clearly lower than the established standard EN374. Due to the wide variety of circumstances and possibilities, we must have in mind the manual of instructions from manufacturers of gloves. The gloves should be immediately replaced when any sign of degradation is noted.
- Boots: No.
- Apron: No.
- Clothing:
Suitable work clothes which avoid contact with the product should be worn.

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.

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: Because of volatility, emissions to the atmosphere while handling and use may result. Avoid any release into the atmosphere.

VOC (product ready for use*): It is applicable the Directive 2004/42/EC, on the limitation of emissions of volatile compounds due to the use of organic solvents: VEHICLE REFINISHING PRODUCTS (defined in the Directive 2004/42/EC, Annex I.2): Emission subcategory B) Bodyfiller. VOC (product ready for use*): 33g/l*,(VOC max. 250. g/l* starting from 01.01.2007).





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SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES:

Appearance

- Physical state : Paste.
- Colour : White.
- Odour : Characteristic
- Odour threshold : Not available

pH-value

- pH : Not applicable

Change of state

- Melting point : Not applicable
- Initial boiling point : 77.1 °C at 760 mmHg

Density

- Vapour density : 3.24 at 20°C 1 atm. Relative air
- Specific gravity : 1.91 kg/l at 20°C

Stability

- Decomposition temperature : Not applicable

Viscosity

- Viscosity : 4.5x10⁶cps Brookfield

Volatility:

- Vapour pressure : 11.6 mmHg at 20°C
- Vapour pressure : 6.7 kPa at 50°C

Solubility(ies)

- Solubility in water: : Not miscible
- Solubility in oils and fats: : Not applicable
- Partition coefficient: n-octanol/water : Not applicable

Flammability:

- Flash point : 32. °C Setaflash
- Upper/lower flammability or explosive limits : 1.2 - 6.7 % Volume 25°C
- Autoignition temperature : 484. °C

Explosive properties:

Not applicable.

Oxidizing properties:

Not applicable.

The values indicated do not always coincide with product specifications. The data for the product specifications can be found in the technical data sheet of the same. For additional information concerning physical and chemical properties related to safety and environment, see sections 7 and 12.



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SECTION 10 : STABILITY AND REACTIVITY

- 10.1 REACTIVITY:
Not available.
- 10.2 CHEMICAL STABILITY:
Stable under recommended storage and handling conditions.
- 10.3 POSSIBILITY OF HAZARDOUS REACTIONS:
Possible dangerous reaction with oxidizing agents, acids, alkalis, amines, peroxides, polymerization initiators.
- 10.4 CONDITIONS TO AVOID:
 - Heat: Keep away from sources of heat.
 - Light: If possible, avoid direct contact with sunlight.
 - Air: Not applicable.
 - Humidity: Avoid extreme humidity conditions.
 - Pressure: Not applicable.
 - Shock: Not applicable.
- 10.5 INCOMPATIBLE MATERIALS:
Keep away from oxidizing agents, from strongly alkaline and strongly acid materials.
- 10.6 HAZARDOUS DECOMPOSITION PRODUCTS:
As consequence of thermal decomposition, hazardous products may be produced: carbon monoxide.

SECTION 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~2006/8/EC.

- 11.1 INFORMATION ON TOXICOLOGICAL EFFECTS:
Routes of exposure: May be absorbed by inhalation of vapour, through the skin and by ingestion.
Short-term exposure: Harmful by inhalation. 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. Liquid splashes in the eyes may cause irritation and reversible damage. Irritating to skin. If swallowed, may cause irritation of the throat; other effects may be the same as described in the exposure to vapours.
Long-term or repeated exposure: Repeated or prolonged contact may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin.

<u>DOSE AND LETHAL CONCENTRATIONS</u> for individual ingredients :	<u>DL50 (OECD 401)</u> mg/kg oral	<u>DL50 (OECD 402)</u> mg/kg cutaneous	<u>CL50 (OECD 403)</u> mg/m ³ 4hours inhalation
Styrene	2650. Rat	> 2000. Rabbit	11800. Rat

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SECTION 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~2006/8/EC.

12.1	<p><u>TOXICITY:</u> for individual ingredients :</p> <table border="0"> <thead> <tr> <th></th> <th><u>CL50 (OECD 203)</u></th> <th><u>CE50 (OECD 202)</u></th> <th><u>CE50 (OECD 201)</u></th> </tr> <tr> <th></th> <th>mg/l.96hours</th> <th>mg/l.48hours</th> <th>mg/l.72hours</th> </tr> </thead> <tbody> <tr> <td>Styrene</td> <td>9.0 Fishes</td> <td>4.7 Daphnia</td> <td>1.4 Algae</td> </tr> </tbody> </table>		<u>CL50 (OECD 203)</u>	<u>CE50 (OECD 202)</u>	<u>CE50 (OECD 201)</u>		mg/l.96hours	mg/l.48hours	mg/l.72hours	Styrene	9.0 Fishes	4.7 Daphnia	1.4 Algae
	<u>CL50 (OECD 203)</u>	<u>CE50 (OECD 202)</u>	<u>CE50 (OECD 201)</u>										
	mg/l.96hours	mg/l.48hours	mg/l.72hours										
Styrene	9.0 Fishes	4.7 Daphnia	1.4 Algae										
12.2	<p><u>PERSISTENCE AND DEGRADABILITY:</u> Not available.</p>												
12.3	<p><u>BIOACCUMULATIVE POTENTIAL:</u> Not available.</p>												
12.4	<p><u>MOBILITY IN SOIL:</u> Not available.</p>												
12.5	<p><u>RESULTS OF PBT AND MPMB ASSESMENT:</u> Not available.</p>												
12.6	<p><u>OTHER ADVERSE EFFECTS:</u> <u>Ozone depletion potential:</u> Not available. <u>Photochemical ozone creation potential:</u> Not available. <u>Earth global warming potential:</u> In case of fire or incineration liberates CO2. <u>Endocrine disrupting potential:</u> Not available.</p>												

SECTION 13 : DISPOSAL CONSIDERATIONS

13.1	<p><u>WASTE TREATMENT METHODS:</u> Directive 2008/98/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 and national regulations. For exposure controls and personal protection measures, see section 8.</p> <p><u>Disposal of empty containers:</u> Directive 94/62/EC~2005/20/EC, Decision 2000/532/EC: Emptied containers and packaging should be disposed of in accordance with currently local and national regulations. With contaminated containers and packaging, adopt the same measures as for the product in itself.</p> <p><u>Procedures for neutralising or destroying the product:</u> Controlled incineration in special facilities for chemical waste, but in accordance with local regulations.</p>
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SECTION 14 : TRANSPORT INFORMATION

14.1 UN NUMBER: Not applicable

14.2 UN PROPER SHIPPING NAME: Not applicable

14.3 TRANSPORT HAZARD CLASS(ES) AND PACKING GROUP:

14.4

Transport by road (ADR 2011):

Transport by rail (RID 2011):

Free

Transport by sea (IMDG 35-10):

Free

Transport by air (ICAO/IATA 2011):

Free

Transport by inland waterways (ADN):

Free.

14.5 ENVIRONMENTAL HAZARDS:

Not applicable.

14.6 SPECIAL PRECAUTIONS FOR USER:

Not applicable.

14.7 TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE IBC CODE:

Not applicable.

SECTION 15 : REGULATORY INFORMATION

15.1 EU SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC:

VOC information on the label:

· Contains VOC max. 33g/l* - The limit value 2004/42/CE-IIB cat. B) for the product ready for use is VOC max. 250. g/l.

RESTRICTIONS:

Restrictions on manufacture, placing on market and use, according to Annex XVII of Regulation (EC) No. 1907/2006:

Not applicable.

Recommended restrictions on use:

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

OTHER REGULATIONS:

Not available

15.2 CHEMICAL SAFETY ASSESSMENT:

Not available.



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SECTION 16 : OTHER INFORMATION

- 16.1 TEXT OF THE PHRASES AND NOTES REFERENCED IN SECTIONS 2 AND/OR 3:
R-phrases according the Directive 67/548/EEC~2001/59/EC (DSD), Annex III:
R10 Flammable. R20 Harmful by inhalation. R36/38 Irritating to eyes and skin.
Hazard statements according the Regulation (EC) No. 1272/2008~790/2009 (CLP), Annex III:
H226 Flammable liquid and vapour. H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation. H319 Causes serious eye irritation. H332 Harmful if inhaled. H335 May cause respiratory irritation. H372iE Causes damage to hearing through prolonged or repeated exposure if inhaled.
- MAIN LITERATURE REFERENCES AND SOURCES FOR DATA:
· European Chemicals Bureau: Existing Chemicals, <http://ecb.jrc.ec.europa.eu/esis/>
· Industrial Solvents Handbook, Ibert Mellan (Noyes Data Co., 1970).
· Threshold Limit Values, (AGCIH, 2010).
- MATERIAL SAFETY DATA SHEET REGULATIONS:
Material Safety Data Sheet in accordance with Article 31 of Regulation (EC) No. 1907/2006 (REACH) and Annex I of Regulation (EU) No. 453/2010.
- HISTORY: Date of compilation:
Version: 1 23/11/2012

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.