				Revision nr.1 Dated 3/9/2014 Printed on 3/9/2014
AUXILIARY PRODUC	STS 58	664 Dammar v	arnish	Page n. 1/9
	S	afety data sh	eet	
ECTION 1. Identification of	f the substance	/mixture and of th	ne company/	undertaking
. Product identifier				
Code: Product name	58664 AUXILI	ARY PRODUCTS	58664 Dammar va	rnish
2. Relevant identified uses of the su	ibstance or mixture a	nd uses advised agains	t	
Intended use	Final va	arnish.		
3. Details of the supplier of the safe	ty data sheet			
Name		RIA MAIMERI S.P.A.		
Full address District and Country	Via Gia 20060	nni Maimeri, 1 Mediglia	(1	MI)
	Tel.	ltalia +39 02 906981		
e-mail address of the competent pers	<b>Fax</b> son	+39 02 90698999		
responsible for the Safety Data Shee	t schede	sicurezza@maimeri.it		
Product distribution by	INDUST (MI) ITA		G.MAIMERI 1 20	060 BETTOLINO DI MEDIGLIA
4. Emergency telephone number				
For urgent inquiries refer to	Austral	ia : 131126		
		800 222 1222 Unito NHS Direct (UK): +	44 (0) 845 46 47	
ECTION 2. Hazards identi	Regno		·44 (0) 845 46 47	
	Regno		-44 (0) 845 46 47	
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	<b>n.</b> />>	
t to EC Regu	llation 1272/2008 (CLP) and subsequent amendm	ents and supplements.
Danger		
	Mar 1d and a second	
Causes ser	ious eye damage.	
	uate the with long lasting effects.	
	dvice is needed, have product container or label a	at hand.
Keep out of	reach of children.	
Keep away	from heat / sparks / open flames / hot surfaces. N	o smoking.
Wear prote	ctive gloves / protective clothing / eye protection /	face protection.
	NE	
DUIANOL		
osition/in	tormation on ingredients.	
Cone %		Classification 4272/2008 (CLB)
Conc. %.	Classification 67/546/EEC.	Classification 1272/2008 (CLP).
45 - 47,5	R10, Xn R20/21/22, Xn R65, Xi R36/38, Xi R43, N R51/53	Flam. Liq. 3 H226, Acute Tox. 4 H302, Acute Tox. 4 H312, Acute Tox. 4 H332, Asp. Tox. 1 H304, Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Chronic 2 H411
15 - 16,5	R10, R67, Xn R22, Xi R37/38, Xi R41	Flam. Liq. 3 H226, Acute Tox. 4 H302, Eye Dam. 1 H318, Skin Irrit. 2 H315, STOT SE 3 H335, STOT SE 3 H336
84630-38	he range.	pet.
	Danger Flammable Harmful if s May be fata Causes ser Causes ser Toxic to aqu If medical a Keep out of Keep away Wear prote IF SWALLC Dispose of TURPENTI BUTANOL	Flammable liquid and vapour. Harmful if swallowed. May be fatal if swallowed and enters airways. Causes serious eye damage. Causes serious eye damage. Causes serious eye damage. Causes serious eye damage. Toxic to aquatic life with long lasting effects. Toxic to aquatic life with long lasting effects. Wear protective gloves / protective clothing / eye protection / IF SWALLOWED: Call a POISON CENTER or doctor / physic Dispose of contents / container to in accordance with local are TURPENTINE BUTANOL <b>esition/information on ingredients.</b> Conc. %. Classification 67/548/EEC. 45 - 47,5 R10, Xn R20/21/22, Xn R65, Xi R36/38, Xi R43, N R51/53

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## SECTION 4. First aid measures.

#### 4.1. Description of first aid measures.

EYES: Remove contact lenses, if present Wash immediately with plenty of water for at least 30-60 minutes, opening the eyelids fully. Get medical advice/attention.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention.

INGESTION: Have the subject drink as much water as possible. Get medical advice/attention. Do not induce vomiting unless explicitly authorised by a doctor.

INHALATION: Get medical advice/attention immediately. Remove victim to fresh air, away from the accident scene. If the subject stops breathing, administer artificial respiration. Take suitable precautions for rescue workers.

#### 4.2. Most important symptoms and effects, both acute and delayed.

For symptoms and effects caused by the contained substances, see chap. 11.

**4.3. Indication of any immediate medical attention and special treatment needed.** Information not available.

## **SECTION 5. Firefighting measures.**

#### 5.1. Extinguishing media.

SUITABLE EXTINGUISHING EQUIPMENT

Extinguishing substances are: carbon dioxide, foam, chemical powder. For product loss or leakage that has not caught fire, water spray can be used to disperse flammable vapours and protect those trying to stem the leak.

UNSUITABLE EXTINGUISHING EQUIPMENT

Do not use jets of water. Water is not effective for putting out fires but can be used to cool containers exposed to flames to prevent explosions.

## 5.2. Special hazards arising from the substance or mixture.

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Excess pressure may form in containers exposed to fire at a risk of explosion. Do not breathe combustion products.

#### 5.3. Advice for firefighters. GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

## SECTION 6. Accidental release measures.

#### 6.1. Personal precautions, protective equipment and emergency procedures.

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

#### 6.2. Environmental precautions.

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

#### 6.3. Methods and material for containment and cleaning up.

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Check incompatibility for container material in section 7. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

#### 6.4. Reference to other sections.

Any information on personal protection and disposal is given in sections 8 and 13.

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## **SECTION 7. Handling and storage.**

#### 7.1. Precautions for safe handling.

Keep away from heat, sparks and naked flames; do not smoke or use matches or lighters. Without adequate ventilation, vapours may accumulate at ground level and, if ignited, catch fire even at a distance, with the danger of backfire. Avoid bunching of electrostatic charges. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat. Avoid leakage of the product into the environment.

#### 7.2. Conditions for safe storage, including any incompatibilities.

Store only in the original container. Store in a well ventilated place, keep far away from sources of heat, naked flames and sparks and other sources of ignition. Keep containers away from any incompatible materials, see section 10 for details.

#### 7.3. Specific end use(s).

Information not available.

### SECTION 8. Exposure controls/personal protection.

#### 8.1. Control parameters.

 Regulatory References:
 EH40/2005 Workplace exposure limits. Containing the list of workplace exposure limits for use with the Control of Substances Hazardous to Health Regulations (as amended).

 Éire
 Code of Practice Chemical Agent Regulations 2011.

 OEL EU
 Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC.

 TLV-ACGIH
 ACGIH 2012

Threshold Limit Value.										
Туре	Country	TWA/8h		STEL/15r	STEL/15min					
		mg/m3	ppm	mg/m3	ppm					
WEL	UK	566	100	850	150					
OEL	IRL	112	20	840	150					
TLV-ACGIH		111	20							

					BUT	TANOL	
Th	reshold Limit \	/ele					
	resnoia Limit v	value.					
	Туре	Country	TWA/8h		STEL/15r	min	
	. )pe	oounity					
			mg/m3	ppm	mg/m3	ppm	
	WEL	UK			154	50	SKIN
	OEL	IRL		20			SKIN
	TLV-ACGIH		61	20			
	ILV-ACGIII		01	20			

Legend:

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.

#### 8.2. Exposure controls.

As the use of adequate technical equipment must always take priority over personal protection equipment, make sure that the workplace is well aired through effective local aspiration. Personal protection equipment must comply with the rules in force indicated below. HAND PROTECTION

Protect hands with category II (ref. Directive 89/686/EEC and standard EN 374) work gloves, such as those in PVC, neoprene, nitryl or equivalent. The following should be considered when choosing work glove material: degradation, breakage times and permeation. Work glove resistance to preparations should be checked before use, as it can be unpredictable. Gloves' limit depends on the duration of exposure.

#### EYE PROTECTION

Wear hood visor or protective visor together with airtight goggles (ref. standard EN 166).

SKIN PROTECTION

Wear category II professional long-sleeved overalls and safety footwear (ref. Directive 89/686/CEE and standard EN 344). Wash body with soap and water after removing overalls.

#### RESPIRATORY PROTECTION

If the threshold value (if available) for one or more of the substances present in the preparation for daily exposure in the workplace or to a fraction established by the company's prevention and protection service is exceeded, wear a mask with an A or universal filter, the class (1, 2 or 3) of which must be chosen according to the limit concentration of use (ref. standard EN 141).

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## SECTION 8. Exposure controls/personal protection. ... / >>

The use of respiratory tract protection equipment, such as masks like that indicated above, is necessary to reduce worker exposure in the absence of technical measures. The protection provided by masks is in any case limited.

If the substance in question is odourless or its olfactory threshold is higher than the relative exposure limit and in the event of an emergency, or when exposure levels are unknown or the concentration of oxygen in the workplace is less than 17% volume, wear self-contained, open-circuit compressed air breathing apparatus (ref. standard EN 137) or fresh air hose breathing apparatus for use with full face mask, half mask or mouthpiece (ref. standard EN 138).

An emergency eye washing and shower system must be provided.

In the presence of risks of exposure to splashes or squirts during work, adequate mouth, nose and eye protection should be used to prevent accidental absorption.

ENVIRONMENTAL EXPOSURE CONTROLS.

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

### **SECTION 9.** Physical and chemical properties.

#### 9.1. Information on basic physical and chemical properties.

o	lennour p		
Appearance		liquid	
Colour		colourless	
Odour		characteristic	
Odour threshold.		Not available.	
pH.			
Melting point / freezing point.		Not available.	
Initial boiling point.		Not available.	
Boiling range.		Not available.	
Flash point.	>	23 °C.	
Evaporation Rate		Not available.	
Flammability of solids and gases		Not available.	
Lower inflammability limit.		Not available.	
Upper inflammability limit.		Not available.	
Lower explosive limit.		Not available.	
Upper explosive limit.		Not available.	
Vapour pressure.		Not available.	
Vapour density		Not available.	
Relative density.		0,1 Kg/l	
Solubility		soluble in organic solv	ents
Partition coefficient: n-octanol/water		Not available.	
Auto-ignition temperature.		Not available.	
Decomposition temperature.		Not available.	
Viscosity		Not available.	
Explosive properties		Not available.	
Oxidising properties		Not available.	
9.2. Other information.			
Solid content.		39,16 %	
VOC (Directive 1999/13/EC) :		60,84 % - 608,37	g/litre.
VOC (volatile carbon) :		50,10 % - 500,98	g/litre.
1			

## **SECTION 10. Stability and reactivity.**

#### 10.1. Reactivity.

There are no particular risks of reaction with other substances in normal conditions of use.

## TURPENTINE: dissolves rubber.

BUTANOL: attacks various types of plastic.

#### 10.2. Chemical stability.

The product is stable in normal conditions of use and storage.

#### 10.3. Possibility of hazardous reactions.

The vapours may also form explosive mixtures with the air.

TURPENTINE: reacts violently with strong oxidants and chlorine. May ignite on contact with tin chloride, dissolves rubber. In oxygen atmospheres it generates explosive peroxides. Generates a strongly exothermic reaction on contact with: calcium hypochlorite, chromium trioxide, chromium oxychloride, tin (IV) chloride. Risk of explosion on contact with nitric acid, fluorine. BUTANOL: reacts violently developing heat with: aluminium, strong oxidising agents, strong reducing agents, hydrochloric acid. Forms explosive mixtures with the air.

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## SECTION 10. Stability and reactivity. ... / >>

10.4. Conditions to avoid.

Avoid overheating. Avoid bunching of electrostatic charges. Avoid all sources of ignition.

BUTANOL: avoid exposure to sources of heat and naked flames.

#### 10.5. Incompatible materials.

Information not available.

#### 10.6. Hazardous decomposition products.

In the event of thermal decomposition or fire, gases and vapours that are potentially dangerous to health may be released.

TURPENTINE: acyclic and monocyclic terpenes, hydroterpenes, pyrones; cymenes.

### **SECTION 11. Toxicological information.**

#### 11.1. Information on toxicological effects.

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.

It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

Acute effects: ingestion of this product is harmful. Even small amounts of product may cause serious health problems (stomach pain, nausea, sickness, diarrhoea).

The introduction of even small quantities of this liquid into the respiratory system in case of ingestion or vomit may cause bronchopneumonia and pulmonary edema.

This product may cause serious ocular lesions, cornea opacity, iris lesions, irreversible eye coloration.

Acute effects: contact with skin may cause: irritation, erythema, edema, dryness and chapped skin. Vapour inhalation may slightly irritate the upper respiratory trait. Ingestion may cause health disorders, including stomach pain and sting, nausea and sickness.

Upon contact with skin, this product causes sensitization (dermatitis). Dermatitis derives from skin irritation on the areas which repeatedly come into contact with the sensitizing agent. Cutaneous lesions may include: erythemas, edemas, papules, vesicles, pustules, scurvies, ulcerations and exudative phenomena, whose intensity varies according to illness seriousness and affected areas. Erythemas, edemas and exudative phenomena prevail during the acute phase. Scurfy skin, dryness, ulcerations and skin thickening prevail during the chronic phase.

TURPENTINE LD50 (Oral).	5760 mg/kg Rat
BUTANOL	
LD50 (Oral).	790 mg/kg Rat
LD50 (Dermal).	3400 mg/kg Rabbit
LC50 (Inhalation).	8000 ppm/4h Rat

#### **SECTION 12. Ecological information.**

This product is dangerous for the environment and is toxic for aquatic organisms. In the long term, it have negative effects on acquatic environment.

12.1. Toxicity.

## Information not available.

#### 12.2. Persistence and degradability.

Petroleum distillates, charcoal, vegetable extracts: they are mixtures of paraffinic, naphthenic, diterpenic and aromatic hydrocarbons. Their behaviour on the environment depends on the concentration. In each case use, according to good working practices, avoiding disposal in the environment. As a rule, the product is poorly biodegradable.

TURPENTINE: Oil distillates, coal, plant extracts: they are blends of parafin hydrocarbons, naphthenes, diterpenes and aromatics. Their behaviour in the environment depends on their composition. In any case they should be used according to good working practice, avoiding discharge into the environment. In general the product is poorly biodegradable.

#### 12.3. Bioaccumulative potential.

Information not available.

#### 12.4. Mobility in soil.

Information not available.

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## SECTION 12. Ecological information. ... / >>

#### 12.5. Results of PBT and vPvB assessment.

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

#### 12.6. Other adverse effects.

Information not available.

### **SECTION 13. Disposal considerations.**

#### 13.1. Waste treatment methods.

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

Avoid littering. Do not contaminate soil, sewers and waterways.

Waste transportation may be subject to ADR restrictions.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

### **SECTION 14. Transport information.**

These goods must be transported by vehicles authorized to the carriage of dangerous goods according to the provisions set out in the current edition of the Code of International Carriage of Dangerous Goods by Road (ADR) and in all the applicable national regulations. These goods must be packed in their original packagings or in packagings made of materials resistant to their content and not reacting dangerously with it. People loading and unloading dangerous goods must be trained on all the risks deriving from these substances and on all actions that must be taken in case of emergency situations.

#### Road and rail transport:

ADR/RID Class: Packing Group: Label: Nr. Kemler: Limited Quantity. Tunnel restriction code. Proper Shipping Name: Special Provision:	3 UN: III 30 5 L (D/E) PAINT or PAIN 640E	1263 T RELATED MATERIAL		
Carriage by sea (shipping):				
IMO Class: Packing Group: Label: EMS: Marine Pollutant. Proper Shipping Name:	3 UN: III 3 F-E , <u>S-</u> YES PAINT or PAIN	1263 E T RELATED MATERIAL (TU	RPENTINE)	
Transport by air:				
IATA: Packing Group: Label: Cargo:	3 UN: III 3	1263		
Packaging instructions: Pass.:	366	Maximum quantity:	220 L	
Packaging instructions: Special Instructions:	355 A3, A72	Maximum quantity:	60 L	
Proper Shipping Name:		T RELATED MATERIAL		
SECTION 15. Regulator	-	islation specific for the sub	ostance or mixture.	
Seveso category.	9II, O			
	244			EPY 8.1.21 - SDS 1003 Page
Rem Numbers, 01000 1140, 01000-1190, 01000-1.	L77			i ugo

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#### SECTION 15. Regulatory information. ... / >> Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006. Product. Point. 3 - 40 Substances in Candidate List (Art. 59 REACH). None. Substances subject to authorisarion (Annex XIV REACH). None. Substances subject to exportation reporting pursuant to (EC) Reg. 689/2008: None Substances subject to the Rotterdam Convention: None. Substances subject to the Stockholm Convention: None. Healthcare controls. Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected. 15.2. Chemical safety assessment. No chemical safety assessment has been processed for the mixture and the substances it contains. **SECTION 16. Other information.** Text of hazard (H) indications mentioned in section 2-3 of the sheet: Flam. Liq. 3 Flammable liquid, category 3 Acute Tox, 4 Acute toxicity, category 4 Asp. Tox. 1 Aspiration hazard, category 1 Eye Dam. 1 Serious eye damage, category 1 Eye Irrit. 2 Eye irritation, category 2 Skin Irrit. 2 Skin irritation, category 2 STOT SE 3 Specific target organ toxicity - single exposure, category 3 Skin Sens. 1 Skin sensitization, category 1 Aquatic Chronic 2 Hazardous to the aquatic environment, chronic toxicity, category 2 H226 Flammable liquid and vapour. H302 Harmful if swallowed H312 Harmful in contact with skin. H332 Harmful if inhaled. May be fatal if swallowed and enters airways. H304 H318 Causes serious eye damage. H319 Causes serious eye irritation. H315 Causes skin irritation. May cause respiratory irritation. May cause an allergic skin reaction. H335 H317 H336 May cause drowsiness or dizziness. H411 Toxic to aquatic life with long lasting effects. Text of risk (R) phrases mentioned in section 2-3 of the sheet: **R10** FLAMMABLE. HARMFUL BY INHALATION, IN CONTACT WITH SKIN AND IF SWALLOWED. HARMFUL IF SWALLOWED. R20/21/22 R22

R36/38 IRRITATING TO EYES AND SKIN. IRRITATING TO RESPIRATORY SYSTEM AND SKIN. IRRITATING TO SKIN. R37/38 R38 RISK OF SERIOUS DAMAGE TO EYES. R41 R43 MAY CAUSE SENSITISATION BY SKIN CONTACT. TOXIC TO AQUATIC ORGANISMS, MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC R51/53 ENVIRONMENT. HARMFUL: MAY CAUSE LUNG DAMAGE IF SWALLOWED. R65 VAPOURS MAY CAUSE DROWSINESS AND DIZZINESS. R67

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SECTION 16. Other information. .../>> LEGEND: - ADR: European Agreement concerning the carriage of Dangerous goods by Road - CAS NUMBER: Chemical Abstract Service Number - CE50: Effective concentration (required to induce a 50% effect) - CE NUMBER: Identifier in ESIS (European archive of existing substances) - CLP: EC Regulation 1272/2008 - DNEL: Derived No Effect Level - EmS: Emergency Schedule - GHS: Globally Harmonized System of classification and labeling of chemicals - IATA DGR: International Air Transport Association Dangerous Goods Regulation - IC50: Immobilization Concentration 50% - IMDG: International Maritime Code for dangerous goods - IMO: International Maritime Organization - INDEX NUMBER: Identifier in Annex VI of CLP - LC50: Lethal Concentration 50% - LD50: Lethal dose 50% - OEL: Occupational Exposure Level - PBT: Persistent bioaccumulative and toxic as REACH Regulation - PEC: Predicted environmental Concentration - PEL: Predicted exposure level - PNEC: Predicted no effect concentration - REACH: EC Regulation 1907/2006 - RID: Regulation concerning the international transport of dangerous goods by train - TLV: Threshold Limit Value - TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure. - TWA STEL: Short-term exposure limit - TWA: Time-weighted average exposure limit - VOC: Volatile organic Compounds - vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation. GENERAL BIBLIOGRAPHY 1. Directive 1999/45/EC and following amendments 2. Directive 67/548/EEC and following amendments and adjustments 3. Regulation (EC) 1907/2006 (REACH) of the European Parliament 4. Regulation (EC) 1272/2008 (CLP) of the European Parliament 5. Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament 6. Regulation (EC) 453/2010 of the European Parliament 7. Regulation (EC) 286/2011 (II Atp. CLP) of the European Parliament 8. The Merck Index. - 10th Edition 9. Handling Chemical Safety 10. Niosh - Registry of Toxic Effects of Chemical Substances 11. INRS - Fiche Toxicologique (toxicological sheet) 12. Patty - Industrial Hygiene and Toxicology 13. N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition 14. ECHA website Note for users: The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product. This document must not be regarded as a guarantee on any specific product property. The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses. Provide appointed staff with adequate training on how to use chemical products. Changes to previous review: The following sections were modified: 02/03/04/05/06/07/08/09/10/11/12/13/14/15/16.