










<b>MAIMERI S.p.A.</b>		Revision nr.61 Dated 18/01/2010 Printed on 18/01/2010 Page n. 2 / 6
AUXILIARY PRODUCTS	58606 Turpentine essence	
<b>3. Composition / Information on ingredients.</b>		
<b>Contains:</b>		
Name.	Concentration % (C).	Classification.
<b>TURPENTINE</b>	100 %	R 10
<i>C.A.S. number</i>	8006-64-2	Xn R 20/21/22
<i>EC number</i>	232-350-7	Xn R 65
<i>INDEX number</i>	650-002-00-6	XI R 36/38
		Xi R 43
		N R 51/53
		Note 4
The complete text of -R- phrases is specified in section 16.		
<b>4. First aid measures.</b>		
EYES: Irrigate copiously with clean, fresh water for at least 15 minutes. Seek medical advice.		
SKIN: Wash immediately with plenty of water. Remove contaminated clothing. If irritation persists, seek medical attention. Wash contaminated clothing before using them again.		
INHALATION: Remove to open air. If breathing is irregular, seek medical advice.		
INGESTION: Obtain immediate medical attention. Induce vomiting only if indicated by the doctor. Never give anything by mouth to an unconscious person.		
<b>5. Fire-fighting measures.</b>		
<b>GENERAL INFORMATION</b>		
Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Excess pressure may form in containers exposed to fire at a risk of explosion. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water and the remains of the fire according to applicable regulations.		
<b>SUITABLE EXTINGUISHING MEDIA</b>		
The extinction equipment should contain carbon dioxide, foam or chemical powders. For product leaks and spills that have not caught fire, nebulised water can be used to dispel flammable fumes and protect the individuals taking part in stemming the leak.		
<b>EXTINGUISHING MEDIA WHICH SHALL NOT BE USED FOR SAFETY REASONS</b>		
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.		
<b>HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE</b>		
Do not breathe the combustion products (carbon oxide, toxic pyrolysis products, etc).		
<b>SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS</b>		
Hardhat with visor, fireproof clothing (fireproof jacket and trousers with ties around arms, legs and waist) work gloves (fireproof, cut proof and dielectric), self-respirator (self-protector).		
<b>6. Accidental release measures.</b>		
<b>PERSONAL PRECAUTIONS</b>		
Eliminate all sources of ignition (cigarettes, flames, sparks, etc.) from the leakage site. If there are no contraindications, spray solid products with water to prevent the formation of dust. Use breathing equipment if fumes or powders are released into the air. Block the leakage if there is no hazard. Do not handle damaged containers or the leaked product before donning appropriate protective gear. For information on risks for the environmental and health, respiratory tract protection, ventilation and personal protection equipment, see the other sections of this sheet.		
<b>ENVIRONMENTAL PRECAUTIONS</b>		
The product must not penetrate the sewers, surface water, ground water and neighbouring areas.		
<b>METHODS FOR CLEANING UP</b>		
Use inert absorbent material (sand, vermiculite, diatomaceous earth, Kieselguhr, etc.) to soak up leaked product. Collect the majority of the remaining material and deposit it in containers for disposal. If there are no contraindications, use jets of water to eliminate product residues. Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.		

<b>MAIMERI S.p.A.</b>		Revision nr.61 Dated 18/01/2010 Printed on 18/01/2010 Page n. 3 / 6
<b>AUXILIARY PRODUCTS</b>	<b>58606 Turpentine essence</b>	
<b>7. Handling and storage.</b>		
Store in a well ventilated place, keeping the containers closed when not used. Do not smoke while handling. Keep far away from sources of heat, bright flames and sparks and other sources of ignition.		
<b>8. Exposure control / personal protection.</b>		
<b>8.1 Exposure limit values.</b>		
Not available.		
<b>8.2 Exposure controls.</b>		
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 or bad air vent. If such operations do not make it possible to keep the concentration of the product below the permitted workplace exposure thresholds a suitable respiratory tract protection must be used. See product label for hazard details during use. Ask your chemical substance suppliers for advice when choosing personal protection equipment. Personal protection equipment must comply with the rules in force indicated below.		
<b>HAND PROTECTION</b>		
Protect hands with category II (ref. Directive 89/686/EEC and standard EN 374) work gloves, such as those in PVC, neoprene, nitril 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.		
<b>EYE PROTECTION</b>		
Wear protective airtight goggles (ref. standard EN 166).		
<b>SKIN PROTECTION</b>		
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.		
<b>RESPIRATORY PROTECTION</b>		
If the threshold value 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).		
The use of breathing protection equipment, such as masks with organic vapour and dust/mist cartridges, is necessary in the absence of technical measures limiting worker exposure. 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.		
<b>9. Physical and chemical properties.</b>		
Colour	COLOURLESS	
Odour	TYPICAL	
Appearance	LIQUID	
Viscosity	Not available.	
Vapour density	Not available.	
Evaporation Rate	Not available.	
Reactive Properties	Not available.	
Partition coefficient: n-octanol/water	Not available.	
pH.	Not available.	
Boiling point.	Not available.	
Flash point.	> 21 °C.	
Explosive properties.	Not available.	
Vapour pressure.	Not available.	
Specific gravity.	0,2 Kg/l	
VOC (Directive 1999/13/EC) :	100,00 % - 860,00	g/litre of preparation.
VOC (volatile carbon) :	88,24 % - 758,82	g/litre of preparation.
<b>10. Stability and reactivity.</b>		
The product is stable in normal conditions of use and storage. When heated or in the event of a fire, carbon oxides may be released and vapours which are dangerous to health. The vapours may also form explosive mixtures with the air.		

<b>MAIMERI S.p.A.</b>		Revision nr.61 Dated 18/01/2010 Printed on 18/01/2010 Page n. 4 / 6
<b>AUXILIARY PRODUCTS</b>	<b>58606 Turpentine essence</b>	
<p>Mineral white spirits (oil of turpentine) reacts violently with strong oxidizing agents and chlorine. May ignite on contact with stannic chloride; it dissolves rubber.</p>		
<b>11. Toxicological information.</b>		
<p>Acute effects: inhalation, cutaneous absorption and ingestion of this product are harmful. This product may irritate mucosae, the upper respiratory tract, and eyes. Exposure symptoms may include: stinging and irritated eyes, mouth, nose, throat; cough, respiratory disorders, dizziness, headache, nausea and sickness.</p> <p>In the most serious cases, inhalation of this product may cause larynx and bronchial tube edema and irritation, chemical pneumonia and pulmonary edema. Upon contact with skin, this product may irritate it, causing an increase in skin temperature, swelling and itchiness. Ingestion of even small amounts of this product may cause serious health problems (stomach pain, nausea, sickness, diarrhoea).</p> <p>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, scurries, 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.</p> <p>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.</p> <p>Turpentine: oral rat LD50 = 5760 mg/kg inhalation rat LD50 = 3950 ppm/1 hour 2150 ppm/6 hours.</p>		
<b>12. Ecological information.</b>		
<p>This product is dangerous for the environment and is toxic for aquatic organisms. In the long term, it may even have negative effects on aquatic environment.</p> <p>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.</p>		
<b>13. Disposal consideration.</b>		
<p>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.</p> <p>Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.</p> <p><b>CONTAMINATED PACKAGING</b></p> <p>Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.</p>		
<b>14. Transport information.</b>		
<p>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.</p>		
<b>Road and rail transport:</b>		
ADR/RID Class:	3	UN: 1299
Packing Group:	III	
Label:	3	
Nr. Kemler:	30	
Limited Quantity:	LQ07	
Tunnel restriction code:	(D/E)	
Proper Shipping Name:	TURPENTINE	
 		
<b>Carriage by sea (shipping):</b>		
IMO Class:	3	UN: 1299
Packing Group:	III	
Label:	3	
EMS:	F-E, S-E	
Marine Pollutant:	YES	
Proper Shipping Name:	TURPENTINE	
 		

<b>MAIMERI S.p.A.</b>		Revision nr.61 Dated 18/01/2010 Printed on 18/01/2010 Page n. 5 / 6
<b>AUXILIARY PRODUCTS</b>	<b>58606 Turpentine essence</b>	
<b>Transport by air:</b>		
IATA:	3	UN: 1299
Packing Group:	III	
Label:	3	
Cargo:		
Packaging instructions:	310	Maximum quantity: 220 L
Pass.:		
Packaging instructions:	309	Maximum quantity: 60 L
Proper Shipping Name:	TURPENTINE	
<b>15. Regulatory information.</b>		
 HARMFUL	 DANGEROUS FOR THE ENVIRONMENT	
R 10	FLAMMABLE.	
R 20/21/22	HARMFUL BY INHALATION, IN CONTACT WITH SKIN AND IF SWALLOWED.	
R 36/38	IRRITATING TO EYES AND SKIN.	
R 43	MAY CAUSE SENSITIZATION BY SKIN CONTACT.	
R 51/53	TOXIC TO AQUATIC ORGANISMS, MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT.	
R 65	HARMFUL: MAY CAUSE LUNG DAMAGE IF SWALLOWED.	
S 2	KEEP OUT OF THE REACH OF CHILDREN.	
S 36/37	WEAR SUITABLE PROTECTIVE CLOTHING AND GLOVES.	
S 46	IF SWALLOWED, SEEK MEDICAL ADVICE IMMEDIATELY AND SHOW THIS CONTAINER OR LABEL.	
S 61	AVOID RELEASE TO THE ENVIRONMENT. REFER TO SPECIAL INSTRUCTIONS/SAFETY DATA SHEETS.	
S 62	IF SWALLOWED, DO NOT INDUCE VOMITING; SEEK MEDICAL ADVICE IMMEDIATELY AND SHOW THIS CONTAINER OR LABEL.	
Contains:	TURPENTINE	
Label EC:	232-350-7	
Danger labelling under directives 67/548/EEC and 1999/45/EC and following amendments and adjustments.		
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.		
<b>16. Other information.</b>		
Text of (R) phrases quoted in section 3 of the sheet.		
R 10	FLAMMABLE.	
R 20/21/22	HARMFUL BY INHALATION, IN CONTACT WITH SKIN AND IF SWALLOWED.	
R 36/38	IRRITATING TO EYES AND SKIN.	
R 43	MAY CAUSE SENSITIZATION BY SKIN CONTACT.	
R 51/53	TOXIC TO AQUATIC ORGANISMS, MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT.	
R 65	HARMFUL: MAY CAUSE LUNG DAMAGE IF SWALLOWED.	
<b>GENERAL BIBLIOGRAPHY</b>		
1. Directive 1999/45/EC and following amendments;		
2. Directive 67/548/EEC and following amendments and adjustments (technical adjustment XXIX);		
3. Regulation (EC) 1272/2008 (CLP) of the European Parliament;		
4. Regulation (EC) 1907/2006 (REACH) of the European Parliament;		
5. The Merck Index. - 10th Edition;		
6. <del>Handling Chemical Safety;</del>		
Item Number: 1031	Registry of Toxic Effects of Chemical Substances;	

