

Nautilus PAINT REMOVER

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.2 Relevant identified uses of the substance or mixture and uses advised against

Trade name: **Nautilus PAINT REMOVER**

1.2 Relevant identified uses of the substance or mixture and uses advised against

Intended use: Multipurpose solvent based stripper

1.3 Details of the supplier of the safety data sheet

Company Cecchi Gustavo & C. srl - Via M. Coppino 253,
55049 Viareggio (LU) ITALY www.cecchi.it - info@cecchi.it

Information in case of emergency: +39 0584 383694 - info@cecchi.it

From monday to friday office hours 8:30 – 12:30, 14:00 – 18:30

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in EC Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of EC Regulation 1907/2006 and subsequent amendments.

Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

2.1.1. Regulation 1272/2008 (CLP) (and subsequent amendments and supplements).

Hazard classification and indication:

Flammable liquid, category 3 H226 Flammable liquid and vapour.

Eye irritation, category 2 H319 Causes serious eye irritation.

2.2 Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.



Signal word : Danger

Hazard statements :

H226 Flammable liquid and vapour.

H319 Causes serious eye irritation.

Precautionary statements : **Prevention:**

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P280 Wear protective gloves / eye protection / face protection.

P337+P313 If eye irritation persists: Get medical advice / attention.

P501 Dispose of contents / container in compliance with national waste management regulations.

Safety data sheet available on request.

Pursuant to the provision of Decree Law 27/03/2006 on VOC's limitation, the product shall not be used for the purposes of repair, maintenance and decoration of road vehicles.

2.3 Other hazards

Information not available.

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SECTION 3: Composition/information on ingredients

3.1 Substances.

Information not relevant.

3.2 Mixtures.

Contains.

Identification.	Conc. %.	Classificazione 1272/2008 (CLP).
DIMETHYL-CARBONATE CAS. 616-38-6 EC. 210-478-4 INDEX. 607-013-00-6 Registration Number REACH 01-2119548399-23	26 - 29	Flam. Liq. 2 H225
METHANOL CAS. 67-56-1 EC. 200-659-6 INDEX. 603-001-00-X Registration Number REACH 01-2119433307-44	2 - 2,5	Flam. Liq. 2 H225, Acute Tox. 3 H301, Acute Tox. 3 H311, Acute Tox. 3 H331, STOT SE 1 H370
PROPAN-2-OL CAS. 67-63-0 EC. 200-661-7 INDEX. 603-117-00-0 Registration Number REACH 01-2119457558-25-XXXX	4 - 4,5	Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336
1,3 DIOXACYCLOPENTANE CAS. 646-06-0 EC. 211-463-5 INDEX. 605-017-00-2 Registration Number REACH 01-2119490744-29-0001	32,5 - 35	Flam. Liq. 2 H225, H319
FATTY ALCOHOL, ETHOXYLATE CAS. 27252-75-1 EC. - INDEX. -	1 -1,5	Eye Dam. 1 H318
DIMETHOXYMETHANE CAS. 109-87-5 EC. 203-714-2 INDEX. - Registration Number REACH 01-2119664881-31-0000	24 - 25,5	Flam. Liq. 2 H225

The full wording of hazard (H) phrases is given in section 16 of the sheet.

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 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention immediately. Wash contaminated clothing before using it again.

INHALATION: Remove to open air. If the subject stops breathing, administer artificial respiration. Get medical advice/attention immediately.

INGESTION: Get medical advice/attention immediately. Do not induce vomiting. Do not administer anything not explicitly authorised by a doctor.

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

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

4.3. Indication of any immediate medical attention and special treatment needed.

Follow medical advice.

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 (carbon oxides, toxic pyrolysis products, etc.).

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.

Remove all sources of ignition (cigarettes, flames, sparks, etc.) from the area where the loss occurred. Do not handle damaged containers or spillage without wearing the appropriate safety equipment. Keep not protected people away. Any information on environmental and health risks, respiratory protection, ventilation and personal protective equipment is given in other sections of this safety data sheet.

6.2 Environmental precautions

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

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.

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. Vapours may catch fire and an explosion may occur; vapour accumulation is therefore to be avoided by leaving windows



and doors open and ensuring good cross ventilation. 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. When performing transfer operations involving large containers, connect to an earthing system and wear antistatic footwear. Vigorous stirring and flow through the tubes and equipment may cause the formation and accumulation of electrostatic charges. In order to avoid the risk of fires and explosions, never use compressed air when handling. Open containers with caution as they may be pressurised. Do not eat, drink or smoke during use. Avoid leakage of the product into the environment.

7.2. Conditions for safe storage, including any incompatibilities.

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. 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.

Description	Type	Country	TWA/8h mg/m3	STEL/15min		ppm	SKIN
				mg/m3	ppm		
1,3 DIOXACYCLOPENTANE	TLV						
PROPAN-2-OL	TLV-ACGIH		492	200	983	400	SKIN
METHANOL	OEL	EU	260	200			SKIN
TLV-ACGIH			262	200	328	250	SKIN

See regulatory references given in Section 16.

8.2. Exposure controls.

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

HAND PROTECTION

Protect hands with category III work gloves (see standard EN 374), such as PVC, neoprene, nitrile or equivalent.

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable.

The gloves' wear time depends on the duration and type of use.

SKIN PROTECTION

Wear category I professional long-sleeved overalls and safety footwear (see Directive 89/686/EEC and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

Consider the appropriateness of providing antistatic clothing in the case of working environments in which there is a risk of explosion.

EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, wear a mask with a type AX filter, whose limit of use will be defined by the manufacturer (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

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If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

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

Appearance :	pasty liquid
Colour :	white
Odour :	characteristic
Odour Threshold :	not applicable
pH :	not applicable
Melting point/freezing point :	Not applicable
Initial boiling point:	62 °C
Boiling range:	not available
Flash point :	27 °C
Evaporation rate :	>90 °C
Flammability (solid, gas)	not applicable.
Lower inflammability limit.	-18°C
Upper inflammability limit.	-6°C
Lower explosive limit.	2,2% (v/v)
Upper explosive limit.	19,9% (v/v)
Vapour pressure.	0,49 g/ml
Vapour density	2,6
Relative density.	1,020 kg/l
Solubility	soluble in organic solvents
Partition coefficient: n-octanol/water	not applicable.
Auto-ignition temperature.	237°C
Decomposition temperature.	not available.
Brookfield Viscosity	7000 cPs (R4/20 a 20°C)
Oxidising properties	not applicable.

9.2 Other information

VOC (Directive 1999/13/EC) :	94,47 %
VOC (volatile carbon) :	43,35%

SECTION 10: Stability and reactivity

10.1 Reactivity

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

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.

10.4 Conditions to avoid

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

10.5 Incompatible materials

Oxidizing agents, strong reducing agents.

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.

SECTION 11: Toxicological information

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11.1 Information on toxicological

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: stinging eyes. Symptoms may include: rubescence, edema, pain and lachrymation.

Ingestion may cause health problems, including stomach pain and sting, nausea and sickness.

METHANOL: Minimum lethal dose for humans by ingestion is considered in the range from 300 to 1000 mg/kg. The ingestion of 4-10 ml of the substance can cause permanent blindness (IPCS) in adult.

METHANOL

LD50 (Oral). 1187 mg/kg Rat

LD50 (Dermal).17100 mg/kg Rabbit

LC50 (Inhalation).128,2 mg/l Rat

DIMETHYL-CARBONATE

LD50 (Oral).> 5000 mg/kg Rat

LC50 (Inhalation).> 5,36 mg/m³ Rat

PROPAN-2-OL

LD50 (Oral).4710 mg/kg Rat

LD50 (Dermal).12800 mg/kg Rat

LC50 (Inhalation).72,6 mg/l/4h Rat

1,3 DIOXACYCLOPENTANE

LC50 (Inhalation). 68,4 mg/kg Rat

DIMETHOXYMETHANE

LD50 (Oral). 6415 mg/kg Rat

LC50 (Inhalation). 15000 mg/kg Rat

SECTION 12: Ecological information

12.1 Toxicity

DIMETHYL-CARBONATE

EC50 - for Crustacea. > 100 mg/l/48h Daphnia magna, Alga

METHANOL

LC50 - for Fish. 15400 mg/l/96h Pesce

PROPAN-2-OL

EC50 - for Crustacea. > 100 mg/l/48h Daphnia magna

12.2. Persistence and degradability.

METHANOL

Solubility in water. mg/l 1000 - 10000

Rapidly biodegradable.

PROPAN-2-OL

Rapidly biodegradable.

12.3. Bioaccumulative potential.

METHANOL

Partition coefficient: n-octanol/water. -0,77

BCF. 0,2

PROPAN-2-OL

Partition coefficient: n-octanol/water. 0,05

12.4. Mobility in soil.

Information not available.

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

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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.

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

14.1 UN number

ADR / RID, IMDG, IATA: 1993

14.2 UN proper shipping name

ADR / RID: FLAMMABLE LIQUID, N.O.S. (1,3 DIOXACYCLOPENTANE, DIMETHYL-CARBONATE, DIMETHOXYMETHANE)

IMDG: FLAMMABLE LIQUID, N.O.S. (1,3 DIOXACYCLOPENTANE, DIMETHYL-CARBONATE, DIMETHOXYMETHANE)

IATA: FLAMMABLE LIQUID, N.O.S. (1,3 DIOXACYCLOPENTANE, DIMETHYL-CARBONATE, DIMETHOXYMETHANE)

14.3 Transport hazard class(es)

ADR / RID: Class: 3 Label: 3

IMDG: Class: 3 Label: 3

IATA: Class: 3 Label: 3

14.4 Packing group

ADR / RID, IMDG, IATA: III

14.5 Environmental hazards

ADR / RID: NO

14.6 Special precautions for user

ADR / RID: HIN - Kemler: 30 Limited Quantities 5 L Tunnel restriction code (D/E)

Special Provision:

640E

IMDG: EMS: F-E, S-E, Limited Quantities 5 L

IATA: Cargo: Maximum Packaging

quantity: 220 L instructions: 366

Pass.: Maximum quantity: 60 Packaging instructions: 355

Special Instructions: A3

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Information not relevant.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Seveso category.

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 authorisation (Annex XIV REACH).

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None.

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

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. 2	Flammable liquid, category 2
Flam. Liq. 3	Flammable liquid, category 3
Acute Tox. 3	Acute toxicity, category 3
STOT SE 1	Specific target organ toxicity - single exposure, category 1
Eye Dam. 1	Serious eye damage, category 1
Eye Irrit. 2	Eye irritation, category 2
STOT SE 3	Specific target organ toxicity - single exposure, category 3
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H301	Toxic if swallowed.
H311	Toxic in contact with skin.
H331	Toxic if inhaled.
H370	Causes damage to organs.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
EUH019	May form explosive peroxides.

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

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- 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
- WGK: Water hazard classes (German).

GENERAL BIBLIOGRAPHY

1. Regulation (EU) 1907/2006 (REACH) of the European Parliament
2. Regulation (EU) 1272/2008 (CLP) of the European Parliament
3. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament
4. Regulation (EU) 453/2010 of the European Parliament
5. The Merck Index. - 10th Edition
6. Handling Chemical Safety
7. Niosh - Registry of Toxic Effects of Chemical Substances
8. INRS - Fiche Toxicologique
9. Patty - Industrial Hygiene and Toxicology
10. N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
11. 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.

Regulatory References for control parameters (see Section 8):	Italy	Legislative Decree 9th April 2008, n. 81
EU	OEL EU	Directive 2009/161/EU; Directive 2006/15/EC;
	TLV-	Directive 2004/37/EC; Directive 2000/39/EC.
	ACGIH	ACGIH 2014

Other information: This sheet has been drawn up in collaboration with Bioikòs Ambiente S.r.l. located in via Rivani 99, BOLOGNA (Tel. 051 5878211).