

## 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1 Product identifier

- Product name: U-PRIMER 199DC
- 1.2 Relevant identified uses of the substance or mixture and uses advised against
- Liquid one-component, silanic adhesion promoter, for wood
- 1.3 Details of the supplier of the safety data sheet
- Name: N.P.T. S.r.I.
  - Full address: Via Guido Rossa, n. 2 CAP: 40056 Crespellano (BO)
  - Telephone number: ++39 051 969109
  - Fax:++39 051 969837
  - E-mail address of the competent person responsible for the SDS: infoSDS@nptsrl.com

#### 1.4 Emergency telephone number:

- Telephone number of N.P.T. Laboratories and manufacturing plant, Gropello Cairoli (PV):
- + +39 0382 815132 (available from Monday to Friday, only in the following office hours: 08:30 to 12:30, 13:30 to 17:00).

# 2. HAZARDS IDENTIFICATION

#### 2.1 Classification of the mixture

This mixture is classified as dangerous according to EC Directive 1999/45/EC. Major adverse effects: see sections 9 to 12.

#### 2.2 Label elements

Risk symbol(s):



- R-phrases: R10, R36/38(\*)
- S-phrases: S23, S25, S60 (\*)
- Additional phrases: none
- (\*) See section 16 for full text of R-phrases and S- phrases. (\*) See section 16 for full text of R-phrases and S- phrases.
- 2.3 Other hazards

N.AV.

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

# 3.1 Substances

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# 3.2 Mixtures

Substances presenting a health or environmental hazard within the meaning of the Dangerous Substances Directive 67/548/EEC or Regulation (EC) No. 1272/2008, assigned a Community workplace exposure limit, classified as PBT/vPvB or included in the Candidate List:

Name	Registration No	CAS No	EINECS No	Class.67/548/CE (**)	Class. CLP (**)	Conc.%
Ethylmethylketone [1] [2]	01-2119457290-43	78-93-3	201-159-0	Xi, F, R11, R36, R66, R67	H225, H319, H336	60,0 - 70,0
Xylene (mixture isomers) [1] [2]	01-2119488216-32	1330-20-7	215-535-7	F, Xn, R11, R20/21, R38	H226, H312, H315, H332	20,0 - 30,0
Trimethoxypropylsilane [1] [2]	N.AV:	1067-25-0	213-926-7	Xi, R10, R38	H226, H315	< 20,0

[1] Substance that presents a danger to the environment or health.

- [2] Substance with a workplace exposure limit (as methanol)
- [3] PBT-Substance.
- [4] vPvB-Substance.

(\*\*)See Section 16 for full text of R-phrases and H-statements.

#### 4. FIRST AID MEASURES

### 4.1 Description of first aid measures

In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. If unconscious lead in a safe place and seek medical advice. Routes of exposure:

- Skin contact: immediately wash with soap and water and rinse thoroughly.

- Eye contact: rinse with plenty of water, fresh and clean, with eyelids open for several minutes. Consult immediately a physician.

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- Ingestion: if swallowed, seek medical advice. Do NOT induce vomiting.
- Inhalation: if feeling unwell remove patient to fresh air and keep warm. If discomfort persists, consult a physician.
- 4.2 Most important symptoms and effects, both acute and delayed
  - <u>Skin contact</u>: Repeated or prolonged skin contact may lead to allergic contact dermatitis or remove the fat of the skin resulting in non-allergic contact dermatitis and absorption through the skin.
  - <u>Eve contact</u>: may cause irritation.
  - Ingestion: N.AV.
  - Inhalation: may cause headache, dizziness, gastric or intestinal disorders, drowsiness and/or breathing difficulty.
- 4.3 Indication of any immediate medical attention and special treatment needed
  - Follow medical orders. See section 4.1

# **5. FIRE-FIGHTING MEASURES**

# 5.1 Extinguishing media

- Appropriate extinguishing media: water spray, CO<sub>2</sub>, foam, powder.
- Information about suitable extinguishing media: preferable use of resistant foam alcohol.
- Extinguishing inappropriate: do not use jets of 'water as it may spread fire.
- Indicate whether certain methods of extinction are inadequate in a specific situation related to substance: none in particular.

## 5.2 Special hazards arising from the substance or mixture

In case of fire can be released: carbon monoxide, nitrogen oxides, hydrogen cyanide, isocyanates.

#### 5.3 Advice for fire-fighters

Use breathing apparatus and protective clothing. Avoid, if possible, the water usage. In the absence of other means of extinguishing only use in spray form. Do not allow water runoff contaminate the sewage.

# 6. ACCIDENTAL RELEASE MEASURES

- 6.1 Personal precautions, protective equipment and emergency procedures
- Isolate the area. Ventilate area where the spill occurred. Wear appropriate personal protective equipment. If exposed to fumes, dust or aerosol exposure wear respiratory system.

#### 6.2 Environmental precautions

- Do not allow contamination of water courses.
- 6.3 Methods and material for containment and cleaning up
  - Recommendations on how to contain a spill: contain spill with absorbent, non-combustible materials.
  - <u>Recommendations on how to clean a spill</u>: collect mechanically picking up and place in appropriate containers before you start the disposal of the waste regulation. Contaminated area should be cleaned immediately with a suitable decontaminant.

#### 6.4 Reference to other sections

For information on personal protective equipment and disposal refer to sections 7, 8 and Section 13.

#### 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Ensure good interior ventilation, especially at floor level. Avoid contact with skin and eyes. Avoid inhalation of vapor and spray mist arising from application of this mixture. Smoking, eating and drinking should be prohibited in scope. Comply with the regulations regarding health and safety as provided by law. Do not allow to enter drains or watercourses. See also section 8.

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

Keep containers closed. Protect from water, static charges and sources of ignition. For more storage information follow the instructions on the label.

# 7.3 Specific end use(s)

N.AV. refer to section 1.2.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 Control parameters

Ethylmethylketone (n°CAS: 78-93-3; n°EC: 201-159-0). Limit value for occupational exposure: <u>National (IT)</u>: TLV-TWA = 200 ppm (600 mg/ m<sup>3</sup>) TLV-STEL = 300 ppm (900 mg/ m<sup>3</sup>) <u>(EU)</u>: TLV-TWA = 200 ppm (600 mg/ m<sup>3</sup>) TLV-STEL = 300 ppm (900 mg/ m<sup>3</sup>) <u>ACGIH 2009</u>: TLV-TWA = 200 ppm. TLV-STEL/C = 300 ppm Xylene (n°CAS: 1330-20-7; n°EC: 215-535-7).



Limit value for occupational exposure: National (IT): TLV-TWA = 50 ppm (221 mg/m<sup>3</sup>) TLV-STEL =  $100 \text{ ppm} (442 \text{ mg/m}^3)$ (EU): TLV-TWA = 50 ppm (221 mg/m<sup>3</sup>) TLV-STEL =  $100 \text{ ppm} (442 \text{ mg/m}^3)$ ACGIH 2009: TLV-TWA = 100 ppm. TLV-STEL/C = 150 ppm. Methanol (CAS-N°: 67-56-1; EC-N°: 200-659-6) Limit values for occupational exposure: National (ITA): TLV-TWA = 200 ppm (260 mg/m<sup>3</sup>); TLV-STEL = N.AV. <u>EU</u>: TLV-TWA = 200 ppm (260 mg/m<sup>3</sup>); TLV-STEL/C = N.AVACGIH 2009: TLV-TWA = 200 ppm; TLV-STEL/C = 250 ppm. Biological limit values: Ethylmethylketone (n°CAS: 78-93-3; n°EC: 201-159-0). BMGV = 70 µmol/l. Medium: urine. Sampling time: post shift. Parameter: butan-2-one. Xylene (n°CAS: 1330-20-7; n°EC: 215-535-7). BMGV = 650 µmol/l creatinine. Medium: urine. Sampling time: post shift. Parameter: methyl hippuric acid. DNEL: Xylene (n°CAS: 1330-20-7; n°EC: 215-535-7). Workers (short-term): Dermal DNEL - local effects: 174 mg/m<sup>3</sup> air. Inhalation DNEL - systemic/local effects: 289 mg/m<sup>3</sup> air. Workers (long-term): Inhalation DNEL - systemic/local effects: 77 mg/m<sup>3</sup> air. Popolation (short-term): Inhalation DNEL - systemic/local effects: 174 mg/m<sup>3</sup> air. Popolation (long-term): Inhalation DNEL - systemic effects: 14,8 mg/m<sup>3</sup> air. Oral DNEL - systemic effects: 1,6 mg/kg body weight/day. Dermal DNEL - systemic effects: 108 mg/kg body weight/day. Methanol (CAS-N°: 67-56-1; EC-N°: 200-659-6) Workers (short-term): Dermal DNEL - systemic effects: 0,69 mg/kg body weight/day. Inhalation DNEL - systemic effects: 4,9 mg/m<sup>3</sup> air. Workers (long-term): Dermal DNEL - systemic effects: 0,69 mg/kg body weight/day. Inhalation DNEL - systemic effects: 4,9 mg/m<sup>3</sup> air. PNEC: Xylene (n°CAS: 1330-20-7; n°EC: 215-535-7). Fresh water: 0,327 mg/l. Sea water: 0,1 mg/l. Sediments: 12,46 mg7kg. Soil: 2,31 mg/kg dry weight. Sewage Treatment Plant: 6,58 mg/l. Oral: N.AV. Methanol (CAS-Nº: 67-56-1; EC-Nº: 200-659-6) Fresh water: 0,34 mg/l. Sea water:> 0,034 mg/l.

# 8.2 Exposure controls

Avoid contact with eyes and skin. Immediately remove all soiled and contaminated clothing. Avoid inhalation of vapor and aerosol effects of this mixture. Wash hands before nreaks and at the end of work. Provide adequate ventilation. When reasonably possible, this may be achieved by the use of local exhaust ventilation and good general aspiration. If these measures are not sufficient to maintain concentrations below the occupational exposure limit, must be worn the proper respiratory protection.

Individual protection measures, such as personal protective equipment:

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Eye/face protection/face (ref. standard EN 166:2004): use glasses to protect against splash of liquids. Contact lenses should not be worn in case of risk of splashing.

Skin protection: use suitable clothing to avoid contact.

Hand protection: use chemical resistant gloves classified under Standard EN 374: protective gloves against chemicals and micro-organisms. Acceptable PVA or natural rubber gloves.

<u>Respiratory protection</u>: when exposed to concentrations above the exposure limit (see section 8.1), wear respiratory protection that is independent of circulating air. In case of brief exposure use respiratory filter device type AB.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

	General information				
	- Appearance:	Liquid.			
	- Odour:	Light, typical			
	- Odour threshold:	N.AV.			
9.1	I Information on basic physical and chemical properties				
	- pH:	N.AP. (undiluted)			
	- Melting point/freezing point (92/69/EEC, A1):	N.AP.			
	- Initial boiling point and boiling range (92/69/EEC, A2):	N.AV.			
	- Flash point:	> 26 ℃.			
	- Evaporation rate:	N.AV.			
	- Flammability (solid, gas):	N.AV.			
	- Upper/lower flammability or explosive limits:	N.AV.			
	- Vapour tension:	N.AV.			
	- Vapour density (air=1):	N.AV.			
	- Relative density (92/69/EEC, A3):	0,87 g/ml (20℃).			
	- Solubility in water (92/69/EEC, A6):	Slightly miscible.			
	- Solubility in organic solvents:	Complete.			
	- Partition coefficient: n-octanol/water:	N.AV.			
	- Auto-ignition temperature:	250 ℃.			
	- Decomposition temperature:	N.AV.			
	- Viscosity:	N.AV.			
	- Explosive properties:	N.AV.			
	- Oxidising properties:	no			
9.2	Other information:				
	- VOC	783 g/l.			
		=			

### 10. STABILITY AND REACTIVITY

10.1 Reactivity

None under recommended storage and handling conditions (see section 7). **10.2 Chemical stability** 

Stable under recommended storage and handling conditions (see section 7).

10.3 Possibility of hazardous reactions

Vapours may form explosive mixtures with air.

#### 10.4 Conditions to avoid

Sources of heat, ignition and electrostatic charges.

10.5 Incompatible materials

Oxidizing agents, amines, strong bases and strong acids.

# 10.6 Hazardous decomposition products

Isocyanate monomers, carbon monoxide and carbon dioxide, methane, styrene, hydrogen.

#### 11. TOXICOLOGICAL INFORMATION

There are no data available on the mixture itself. Set out below is the toxicological information relating to the main substances in the mixture.

Hazardous effects to health from exposure to the mixture: see Sections 2 and 4.

### 11.1 Information on toxicological effects

- Ethylmethylketone:
- Acute toxicity, by oral route: LD50 rat = 3300 mg/kg. Directive 84/449/EEC method B.1.
- Acute toxicity, dermal toxicity: LD50 rabbit = 5000 mg/kg. Method OECD TG 402.
- Xylene (mixture isomers):
- Acute inhalation toxicity: LC50 rat = 6350 mg/l. Method OECD TG 403.
- Acute toxicity, by oral route: LD50 rat = 8700 mg/kg. Directive 84/449/EEC method B.1.
- Acute toxicity, dermal toxicity: LD50 rabbit = 2000 mg/kg. Method OECD TG 402.
- Trimethoxypropylsilane:

- Skin sensitization according to Buehler (skin test): guinea pigs = negative, does not cause skin sensitization. Method OECD TG 406.



<u>CMR Rating</u>: N.AV. <u>Additional information</u>: N.AV.

# 12. ECOLOGICAL INFORMATION

Use according to standards of good practice and avoid release to the environment (see also sections 6,7,13,14, 15). There are no ecotoxicological data on the mixture itself. Set out below is the toxicological information relating to the main substances in the mixture.

### 12.1 Toxicity

- Ethylmethylketone:
- Acute toxicity to fish (LC50): Pimephales promelas, 96h. = 2993 mg/l. Method OECD TG 203
- Acute toxicity to fish (LC50): Lepomis macrochirus, 96h. = 1690 mg/l. Method OECD TG 203
- Acute toxicity for daphnia (EC50): Daphnia magna (water flea), 48h. = 308 mg/l. Method OECD TG 202.
- Acute toxicity to algae (ErC50): Pseudokirchneriella subcapitata, 96h. (Inhibitor of growth) = 2029 mg/l.
- Xylene (mixture isomers):
- Acute toxicity for daphnia (EC50): Daphnia magna (water flea), 24h. => 1 mg/l. Method OECD TG 202.
- Acute toxicity to algae (ErC50): 73h. => 4,36 mg/l. Method OECD TG 201.
- Acute toxicity to fish (LC50): 96h. = 2,6 mg/l. Method OECD TG 203.
- Chronic Toxicity to Daphnia: Daphnia magna (water flea), 21d, NOEC => 1,57 mg/l. Method OECD TG 202.
- Chronic Toxicity to fish: 56d, NOEC = > 1,3 mg/l. Method OECD TG 202.

# 12.2 Persistence and degradability

- Ethylmethylketone:
- Biodegradability: 98%, 28d, readily biodegradable. Method OECD TG 301D.
- Xylene (mixture isomers):
- Easily degradable.
- Trimethoxypropylsilane:

Biodegradability: 12,8%, 28d, not immediately biodegradable. Method OECD TG 301D.

# 12.3 Bioaccumulative potential

#### Ethylmethylketone:

Bioaccumulation (BCF): < 100. Bioconcentration potential is low.

- Xylene (mixture isomers):
- Little bioaccumulative.

# 12.4 Mobility in soil

Ethylmethylketone:

Potential for mobility is very high (Koc between 0 and 50).

Partition coefficient organic carbon / water in soil (Koc): 3.8 Estimated.

- Xylene (mixture isomers):
- The substance evaporates quickly
- 12.5 Results of PBT and vPvB assessment
  - The components of the mixture, based on available information, do not meet the vPvB and PBT criteria.

#### 12.6 Other adverse effects

N.AV.

# 13. DISPOSAL CONSIDERATIONS

# 13.1 Waste treatment methods

Recover if possible. Operate according to local and national regulations: 91/156/EEC, 91/689/EEC, 94/62/EEC. Disposal of uncured material (according to Directive 2000/532/EC):

waste code EWC 080409 \* - adhesives and sealants containing organic solvents or other dangerous substances. Empty containers must be disposed according to official regulations.

# **14. TRANSPORT INFORMATION**

- Not classified as dangerous under transport regulations.
- 14.1 UN number
- UN1139
- 14.2 UN proper shipping name <u>ADR</u>: COATING SOLUTIONS <u>IMDG</u>: COATING SOLUTIONS

#### <u>IATA</u> : COATING SOLUTIONS 14.3 Transport hazard class(es)

ADR / RID: Class: 3 Kemler: 33 Special provisions: 640D IMDG: Class: 3

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EMS-No: F-E, S-E <u>IATA:</u> Class: 3 <u>ADN:</u> Class: 3 Kemler: 33 Special provisions: 640D **14.4 Packing group** <u>ADR/RID</u>: II <u>IMDG</u>: II <u>IATA</u>: II **14.5 Environmental hazards** None.

### 14.6 Special precautions for user Warning: flammable liquid.

# 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

N.AP.

# Additional information for Transport in accordance with IMDG, ADR/RID and ICAO/IATA

Not regulated if the contents are lower than or equal to 5I. per interior packaging, and lower than or equal to 20 I. per parcel.

# **15. REGULATORY INFORMATION**

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

Commission Regulation (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH); Directive 67/548/EEC (Classification, packaging and labelling of dangerous substances) and subsequent amendments; Directive 1999/45/EC (Classification, packaging and labelling of dangerous preparations) and subsequent amendments; Regulation (EC) No 1907/2006 (Reach); Regulation (EC) No 1272/2008 (CLP); Regulation (EC) No 790/2009 of 10 August 2009 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures. Commission Directive 92/69/EEC of 31 July 1992 adapting to technical progress for the seventeenth time Council Directive 67/548/EEC on the approximation of laws, regulations and administrative provisions relating to the classification, packaging and labelling of dangerous substances

The "Threshold Limit Values" of the substances are taken from: a) Italian legislation: Decree 9 April 2008, n. 81 - Appendix XXXVIII and XLIII, 3 August 2009 Legislative Decree no. 106 - Annex XXXVIII; b) EU Legislation: Directive of 2009/161/CE 17dec. 2009; c) the substances not listed by the National legislation and by the EU Legislation are taken from the volume A.C.G.I.H 2009 "Threshold Limit Value (TLV's) for Chemical Substances and Physical Agents & Biological Exposure Indices (BEIs) "[Source Federchimica - Italian National Association of Chemical Industry : "Threshold limit values and biological indices of exposure to the Risks related to chemicals in the workplace "2010 edition].

Other requirements, restrictions and ban regulations: none

# 15.2 Chemical Safety Assessment

N.AV.

### **16. OTHER INFORMATION**

Full text of R-phrases, Hazard Statements-h AND S-phrases appearing in section 2 and 3:

- H225 Highly flammable liquid and vapour.
- H226 Flammable liquid and vapor.
- H312 Harmful if swallowed.
- H315 Causes skin irritation.
- H319 Causes severe eye irritation.
- H332 Harmful if inhaled.
- H336 May cause drowsiness or dizziness.
- R10 Flammable.
- R11 Highly flammable.
- R20/21 Harmful by inhalation and in contact with skin.
- R36 Irritating to eyes.
- R36/38 Irritating to eyes and skin.
- R38 Irritating to skin.
- R43 May cause sensitization by skin contact.
- R66 Repeated exposure may cause skin dryness or cracking.
- R67 Vapours may cause drowsiness and dizziness.
- S23 Do not breathe gas/fumes/vapor/spray.
- S25 Avoid contact with eyes.

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S60 - This material and its container must be disposed of as hazardous waste.

The information contained in this Safety Data Sheet is based on the present state of knowledge and current national legislation.

It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications.

The product should not be used for purposes other than those shown in Section 1 without first referring to the supplier and obtaining written handling instructions.

As the specific conditions of use of the product are outside the supplier's control, the user is responsible for ensuring that the requirements of relevant legislation are complied with.

The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation.

This sheet replaces all previous versions.

#### Bibliography

ESIS - European chemical Substances Information System - Joint Research Centre;

Federchimica – Book series of the Committee for Substances Safety , No. 2 "THE MSDS Part 2 - Examples of Safety Data Sheet of a substance and a mixture prepared according to Regulation (EU) 453/2010, July 2010".

### Acronyms

ACGIH: American Conference of Governmental Industrial Hygienists.

ADN: european Agreement concerning the international carriage of Dangerous good by iNland goods

**ADR**: Agreement concerning the international carriage of Dangerous goods by Road

BCF: Bio Concentration Factor

BMGV: Biological Monitoring Guidance Value.

CLP: Classification, Labelling and Packaging

CMR: Cancérogène (ou cancérigène), Mutagène et Reprotoxique (Carcinogenic, mutagenic and toxic).

DNEL: Derived no effect level.

EC50: Effective Concentration of a substance that causes 50% of the maximum response.

**ErC50**: Effective Concentration of a substance that causes a 50% reduction in the growth rate.

**EWC**: European Waste Catalogue.

IATA: international air transport association.

IBC, code : International Code for the Construction and Equipment of ships carrying dangerous chemical in Bulk.

IMDG: International maritime dangerous goods.

Koc: coefficient of organic soil partition.

LC 50: Lethal Concentration for 50% of individuals.

LD 50: Lethal Dose for 50% of individuals.

**NOEC**: No Observed Effect Concentration.

OECD: Organisation for Economic Co-operation and Development: Guideline for Testing of Chemicals.

**MARPOL73/78:** Convenzione internazionale per la prevenzione dell'inquinamento causato da navi 1973, come modificata dal protocollo del 1978.

**PBT**: Persistent, bioaccumulative and toxic.

**PNEC**: Predicted no effect concentration.

**RID**: Règlement concernent le transport International ferroviaire des marchandises Dangereuses (Regulation concerning the International carriage of Dangerous goods).

STEL: short term exposure limit.

TLV: threshold limit value.

TWA: Time Weighted Average.

UE: European union.

vPvB: Very persistent very bioaccumulative.

Decoding:

(#) = This symbol indicates that the information has been updated to the review date.

N.AV. = Not available.

N.AP = Not applicable .

[...] = Bibliographic reference.

This safety data sheet was reviewed in all its sections in accordance to the Commission Regulation (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

All subsequent updates will be marked with #.