DESIGN AND PRODUCTION
BY CERTIFIED QUALITY SYSTEM
UNI EN ISO 9001:2008

NPT ADHESIVES AND SEALANTS

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

1.1 Product identifier

Product name: SiMP® Seal 640

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

One component, methoxy silane-based, adhesive for generic industrial applications.

1.3 Details of the supplier of the safety data sheet

Name: N.P.T. S.r.l.
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 not 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): no
- Indication(s) of dangers: no
- R-phrases: no
- S-phrases: no
- Additional phrases: no

2.3 Other hazards

During the application is released methyl alcohol (by reaction with water)

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

N.AP.

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.
-	-	-	-	-	-	-

[1] Substance that presents a danger to the environment or health
[2] Substance with a workplace exposure limit (as ethanol)
[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 place in recovery position and seek medical advice.
Routes of exposure:

- Skin contact: remove with a cloth or paper and wash with soap and water.
- Eye contact: remove with a clean cloth and rinse with water.
- Ingestion: in case of accidental contact with the mouth, expelling and rinse. If ingested in large quantities obtain medical attention.
- Inhalation: in case of symptoms remove to fresh air; If symptoms persist obtain medical attention.

4.2 Most important symptoms and effects, both acute and delayed

- N.AV.

4.3 Indication of any immediate medical attention and special treatment needed

Comply with the provisions of the doctor. See section 4.1.

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

- Appropriate extinguishing media: Water, CO_2, foam, chemical powders, depending on the materials involved in fire.
- Information about suitable extinguishing media: not relevant.
- Extinguishing inappropriate: no one in particular.

- 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

The fire will produce dense black smoke. Exposure to decomposition products may be harmful to health. You may need to use the breathing apparatus.

5.3 Advice for fire-fighters

Cool containers exposed to flames with water. Do not allow water runoff to enter drains or watercourses.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions: Wear protective gloves.

6.2 Environmental precautions

Do not discharge into drains or watercourses.

6.3 Methods and material for containment and cleaning up

- Recommendations on how to contain a spill: Contain material with barriers, including non-absorbent.
- Recommendations on how to clean a spill: Collect mechanically; reintroduce in the packaging for reuse or in other useful containers for disposal.

6.4 Reference to other sections

Once collected and contained, treat material as prescribed in section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid skin and eye contact. Do not allow to enter drains or watercourses. See also section 8.

The product can liberate ethanol. In enclosed spaces vapors may form explosive mixtures with air, in the presence of ignition sources, can cause explosions also inside of empty uncleaned. Therefore, keep away from ignition sources and take precautionary measures against static discharges.

7.2 Conditions for safe storage, including any incompatibilities

Keep containers closed. Protect from water/moisture.

7.3 Specific end use(s)

None.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with exposure limits:

Methanol (CAS-N°: 67-56-1; EC-N°: 200-659-6) - reaction product

- Limit values for occupational exposure:

National (ITA):
TLV-TWA = 200 ppm (260 mg/m^3);
TLV-STEL = N.AV.

EU:
TLV-TWA = 200 ppm (260 mg/m^3);
TLV-STEL/C = N.AV

ACGIH 2009:
TLV-TWA = 200 ppm;
TLV-STEL/C = 250 ppm.

- Biological limit values: N.AV.

DNEL: N.AV.
PNEC: N.AV.

8.2 Exposure controls

Avoid contact with eyes and skin. Provide adequate ventilation: this may be achieved through the use of local exhaust ventilation. A good general ventilation is normally sufficient to keep the airborne ethanol in the air well below the occupational exposure limit: no special precautions must be adopted for normal use. In unventilated/closed spaces could be required respiratory protection.

Individual protection measures, such as personal protective equipment:

Eye protection /face: no special precautions must be adopted for normal use. If there is a risk of splashing/spraying of material wear safety glasses for liquids.

Skin protection: No special precaution must be adopted for normal use, use appropriate clothing.

Hand Protection: For prolonged or repeated handling, use gloves made of nitrile or other gloves recommended by the supplier.

Respiratory protection: If workers are exposed to concentrations above the exposure limit, use a half face mask equipped with filter for organic vapour - type AX (organic gases and vapours with boiling point > 65 °C). Reuse and use against gas compounds is absolutely impermissible.

9. PHYSICAL AND CHEMICAL PROPERTIES

General information

- Appearance:	thixotropic paste
- Odour:	slightly perceptible
- Odour threshold:	N.AV.

9.1 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.AP.
- Flash point:	N.AV.
- Evaporation rate:	N.AV.
- Flammability (solid, gas):	N.AV.
- Upper/lower flammability or explosive limits:	N.AV.
- Vapour tension:	N.AV.
- Vapour density (aria=1):	vapours are heavier than air.
- Relative density (92/69/EEC, A3):	1,54 g/ml (20°C) [Method: immersed body]
- Solubility in water (92/69/EEC, A6):	Insoluble [Method: preliminary test]
- Solubility in organic solvents:	Partial
- Partition coefficient: n-octanol/water:	N.AV.
- Auto-ignition temperature:	N.AV.
- Decomposition temperature:	N.AV.
- Viscosity:	90.000 – 110.000 cps (23°C) [Method: plate/cone]
- Explosive properties:	no
- Oxidising properties:	no

9.2 Other information:

- VOC	0 g/l. (0%)

10. STABILITY AND REACTIVITY

10.1 Reactivity
Reacts slowly with water (ambient humidity) turning into a rubbery solid.

10.2 Chemical stability
Stable under normal conditions and in the absence of water/moisture.

10.3 Possibility of hazardous reactions
None.

10.4 Conditions to avoid
Umidity

10.5 Incompatible materials
Water.

10.6 Hazardous decomposition products
Methanol, carbon monoxide and dioxide, smoke, oxides of nitrogen.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects
When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

12. ECOLOGICAL INFORMATION

Use according to standards of good practice and avoid release to the environment (see also sections 6,7,13,14, 15).

12.1 Toxicity
N.AV.

12.2 Persistence and degradability
Not easily biodegradable

12.3 Bioaccumulative potential
N.AV.

12.4 Mobility in soil
The mobility is limited by the transformation into an insoluble solid by reaction with moisture.

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
None.

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.
Uncured product disposal (according to Directive 2000/532/EC):
waste code 080409* – Waste adhesives and sealants containing organic solvents or other dangerous substances;

Hardened product disposal (according to Directive 2000/532/EC):
waste code 080410 – Waste adhesives and sealants other than those mentioned in 080409.
Packaging: The packaging steel (pail with lid) should not be discarded, but recycled delivering it for free at one point for recycling (according to the local collection system). Before that, make sure the bucket is empty and dry, with the minimum possible residual product.

14. TRANSPORT INFORMATION

Transport within the user's premises:
Always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.1 UN number
N.AP.

14.2 UN proper shipping name
N.AP.

14.3 Transport hazard class(es)
Subsidiary Hazard Class: N.AP.
Label numbers: N.AP.

14.4 Packing group
N.AP.

14.5 Environmental hazards
N.AP.

14.6 Special precautions for user
N.AP.

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
This mixture is not classified as dangerous according to international transport regulations (ADR/RID, IMDG, ICAO/IATA)

15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
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 National 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 and Hazard Statements appearing in section 3:
-

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.
ADR: Agreement concerning the international carriage of Dangerous goods by Road
CLP: Classification, Labelling and Packaging .
CMR: Cancérogène (ou cancérigène), Mutagène et Reprotoxique (Carcinogenic, mutagenic and toxic).
DNEL: Derived No Effect Level.
IATA: international air transport association.
IBC Code: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk.
IMDG: International maritime dangerous goods.
LD 50: Lethal Dose 50 (Lethal Dose for 50% of individuals).
OECD: Organisation for Economic Co-operation and Development: Guideline for Testing of Chemicals.
MARPOL73/78: International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978.
PBT: Persistent, bioaccumulative and toxic.
PNEC: Predicted no effect concentration.
RID: Règlement concernent le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International Carriage of Dangerous Goods)
STEL: short term exposure limit
TLV: threshold limit value
TWA: time weighted average concentration (occupational exposure limit value on the basis of a 8h/day, 40h/week work schedule)
UE/EU: 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 #.