



1

8.1.2013

Safety data sheet

1. Identification of the substance/mixture and of the company/undertaking.

Trade name: Nano Stone ST-1

· **Relevant identified uses of the substance or mixture and uses advised against**

Not determined

· **Application of the substance / the preparation** Coating

· **Details of the supplier of the safety data sheet**

· **Manufacturer/Supplier:**

Nano-Zepoim Israel

7 Harugey Malchout St

TEL-AVIV

ISRAEL

Tel/fax: 972-3-7166565

E-Mail: nanot862@gmail.com

· **Further information obtainable from:** See Manufacturer / Supplier

· **Emergency telephone number:**

National center for Israel medical advice poisoning

Rambam Hospital Haifa

972-4-854900

2. Hazards identification

· **Classification of the substance or mixture**

· **Classification according to Regulation (EC) No 1272/2008**

The product is not classified according to the CLP regulation.

· **Classification according to Directive 67/548/EEC or Directive 1999/45/EC** Not applicable.

· **Information concerning particular hazards for human and environment:**

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

· **Classification system:**

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

· **Label elements**

· **Labelling according to Regulation (EC) No 1272/2008** Void

· **Hazard pictograms** Void

· **Signal word** Void

· **Hazard statements** Void

· **Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

www.nano-zepoim.co.il

טלפון/פקס 03-7166565 מייל: nanot862@gmail.com

3. Composition/information on ingredients

· **Chemical characterization: Mixtures**

· **Description:**

Preparation of modified hybrid materials in aqueous solution for dirt repellent coating

· **Dangerous components:** Void

· **Additional information:** For the wording of the listed risk phrases refer to section 16.

4. First aid measures

· **Description of first aid measures**

· **General information:** No special measures required.

· **After inhalation:** Supply fresh air; consult doctor in case of complaints.

· **After skin contact:** Immediately rinse with water.

· **After eye contact:**

Rinse opened eye for several minutes (10-15) under running water. If symptoms persist, consult a doctor.

· **After swallowing:**

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; call for medical help immediately.

A person vomiting while laying on their back should be turned onto their side.

If Victim is vomiting, bring head in low position (increased Danger of aspiration / perforation)

· **Information for doctor:**

· **Most important symptoms and effects, both acute and delayed**

No further relevant information available.

· **Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

5. Firefighting measures

· **Extinguishing media**

· **Suitable extinguishing agents:**

Use fire extinguishing methods suitable to surrounding conditions.

· **Special hazards arising from the substance or mixture**

No further relevant information available.

· **Advice for firefighters**

· **Protective equipment:** No special measures required.

6. Accidental release measures

· **Personal precautions, protective equipment and emergency procedures**

Use respiratory protective device against the effects of fumes/dust/aerosol.

3

· **Environmental precautions:**

Do not allow product to reach sewage system or any water course.

Do not allow to penetrate the ground/soil.

Dilute with plenty of water.

· **Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Send for recovery or disposal in suitable receptacles.

Dispose contaminated material as waste according to item 13.

· **Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7. Handling and storage

· **Handling:**

· **Precautions for safe handling**

No special measures required.

Prevent formation of aerosols.

· **Information about fire - and explosion protection:** The product is not flammable.

· **Conditions for safe storage, including any incompatibilities**

· **Storage:**

· **Requirements to be met by storerooms and receptacles:**

Store in a cool location.

· **Information about storage in one common storage facility:**

Only materials of the same storage class should be stored together. Storing together with the following materials is forbidden:

- medicaments, food and feeds including additives.

- infectious, radioactive and explosive materials.

Storing together with materials of other storage classes is permitted partially only under certain conditions.

The material should not be together-stored with materials, where dangerous chemical reactions are possible.

See for this Chap. 10: Stability and reactivity

· **Further information about storage conditions:** Store receptacle in a well ventilated area.

· **Specific end use(s)** No further relevant information available.

8. Exposure controls/personal protection

· **Additional information about design of technical facilities:** No further data; see item 7.

· **Control parameters**

· **Ingredients with limit values that require monitoring at the workplace:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

· **Additional information:** The lists valid during the making were used as basis.

· **Exposure controls**

· **Personal protective equipment:**

· **General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

Do not eat, drink, smoke or sniff while working.

· **Respiratory protection:**

Use suitable respiratory protective device only when dust, steam, aerosol or mist is formed.

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

· **Protection of hands:**

Protective gloves

To avoid skin problems reduce the wearing of gloves to the required minimum.

Check protective gloves prior to each use for their proper condition.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Preventive skin protection by use of skin-protecting agents is recommended.

· **Material of gloves**

Butyl rubber, BR

Nitrile rubber, NBR

Plastic gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

Penetration time: > 480 min. (8h) EN 374

The numerical data are approximately values Increased Temperatures by warmed up substances, body warmth, etc. and a reduction of the layer strength by stretching can lead to a decrease of the break-through time.

With a 1,5 times bigger / smaller layer-thickness the break-through time halves / doubles itself.

The determined penetration times according to EN 374 part III are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Not suitable are gloves made of the following materials:**

Leather gloves

Strong material gloves

· **Eye protection:**

Safety glasses

9. Physical and chemical properties

· Information on basic physical and chemical properties

· General Information

· Appearance:

Form: Fluid

Colour: slightly opaque, colorless

· **Odour:** nearly odourless

· **pH-value at 20°C:** 3.0 - 5.0 (50% in water)

· Change in condition

Melting point/Melting range: Undetermined.

Boiling point/Boiling range: > 100°C

· **Flash point:** Not applicable.

· **Flammability (solid, gaseous):** Not applicable.

· **Ignition temperature:** Not determined

· **Decomposition temperature:** Not determined.

· **Self-igniting:** Product is not selfigniting.

· **Danger of explosion:** Product does not present an explosion hazard.

· Explosion limits:

Lower: Not determined.

Upper: Not determined.

· **Vapour pressure:** Not determined.

· **Density at 20°C:** $1.0 \pm 0.03 \text{ g/cm}^3$

· **Relative density** Not determined.

· **Vapour density** Not determined.

· **Evaporation rate** Not determined.

· Solubility in / Miscibility with

water: miscible (product precipitates after days)

· **Segregation coefficient (n-octanol/water):** Not determined.

· Viscosity:

Dynamic at 20°C: 1 - 10 mPas

Kinematic: Not determined.

· **Other information** No further relevant information available.

10. Stability and reactivity

· Reactivity

· Chemical stability

· Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

· **Possibility of hazardous reactions** No dangerous reactions known.

· **Conditions to avoid** No further relevant information available.

· **Incompatible materials:** No further relevant information available.

· Hazardous decomposition products:

Could be released in case of Fire:

Carbon monoxide and carbon dioxide

11. Toxicological information

- **Information on toxicological effects**

- **Acute toxicity:**

- **Primary irritant effect:**

- **on the skin:** No irritant effect.

- **on the eye:** No irritating effect.

- **Sensitization:** No sensitizing effects known.

- **Additional toxicological information:**

The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.

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

- **Toxicity**

- **Acquatic toxicity:** No further relevant information available.

- **Persistence and degradability** No further relevant information available.

- **Behaviour in environmental systems:**

- **Bioaccumulative potential** No further relevant information available.

- **Mobility in soil** No further relevant information available.

- **Additional ecological information:**

- **General notes:**

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

- **Other adverse effects** No further relevant information available.

13. Disposal considerations

- **Waste treatment methods**

- **Recommendation**

Can be burned with household garbage after consulting with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations.

- **European waste catalogue**

08 00 00 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS

08 04 00 wastes from MFSU of adhesives and sealants (including waterproofing products)

08 04 16 aqueous liquid waste containing adhesives or sealants other than those mentioned in 08 04 15

- **Uncleaned packaging:**
 - **Recommendation:** Disposal must be made according to official regulations.
-

14. Transport information

- **UN-Number**
 - **ADR, ADN, IMDG, IATA** Void
 - **UN proper shipping name**
 - **ADR, ADN, IMDG, IATA** Void
 - **Transport hazard class(es)**
 - **ADR, ADN, IMDG, IATA**
 - **Class** Void
 - **Packing group**
 - **ADR, IMDG, IATA** Void
 - **Environmental hazards:**
 - **Marine pollutant:** No
 - **Special precautions for user** Not applicable.
 - **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.
 - **UN "Model Regulation":**
-

15. Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
 - **Labelling according to Regulation (EC) No 1272/2008** Void
 - **Hazard pictograms** Void
 - **Signal word** Void
 - **Hazard statements** Void
 - **National regulations:**
 - **Other regulations, limitations and prohibitive regulations**
National and local regulations concerning chemicals shall be observed.
 - **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.
-

16. Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

ICAO: International Civil Aviation Organization

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

