

Material Safety Data Sheet
acc. to ISO/DIS 11014

TEKTON 38

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1. IDENTIFICATION OF SUBSTANCE

· **Product details**

· **Trade name:** Gravelguard

· **Article number:** Tekton 38

· **Application of the substance / the preparation:** Anticorrosion/Abrasion protection

· **Manufacturer/Supplier:**

Chemicar USA

670 New York Street

Memphis, TN 38104

Tel: 901 274 3347

Fax: 901 274 8816

E-mail: sales@chemicar.com

· **Information department:** Product safety department.

· **Emergency information:** Tel: 800 424 9300 Chemtrec

2. COMPOSITION/DATA ON COMPONENTS

· **Chemical characterization**

· **Description:** Mixture of the substances listed below with non-hazardous additions.

· **Dangerous components:**

CAS: 64742-49-0

EINECS: 265-151-9

Naphtha (petroleum), hydrotreated light

Xn, F, N; R 11-38-51/53-65-67

25-50%

CAS: 108-88-3

EINECS: 203-625-9

Toluene

Xn, F; R 11-20

2.5-10%

CAS: 64742-95-6

EINECS: 265-199-0

Solvent naphtha (petroleum), light aroma.

Xn, N; R 10-37-51/53-65-66-67

1.0-2.5%

CAS: 67-56-1

EINECS: 200-659-6

Methanol

T, F; R 11-23/24/25-39/23/24/25

<1.0%

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

3. HAZARDS IDENTIFICATION

· **Hazard description:**

Xi Irritant

F Highly flammable

N Dangerous for the environment

· **Information pertaining to particular dangers for man and environment:**

The product has to be labeled due to the calculation procedure of international guidelines.

Has a narcotizing effect.

R 11 Highly flammable.

R 38 Irritating to skin.

R 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

R 67 Vapors may cause drowsiness and dizziness

· **Classification system:**

The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

· **NFPA ratings (scale 0 - 4)**

Health = 3

Fire = 3

Reactivity = 0

· **HMS-ratings (scale 0 - 4)**

Health = 3

Fire = 3

Reactivity = 0

4. FIRST AID MEASURES

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

· **After inhalation:** *In case of unconsciousness place patient stably in side position for transportation.*

· **After skin contact:** *Immediately wash with water and soap and rinse thoroughly.*

· **After eye contact:** *Rinse opened eye for several minutes under running water.*

· **After swallowing:** *If symptoms persist consult doctor.*

5. FIRE FIGHTING MEASURES

· **Suitable extinguishing agents:**

CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

· **For safety reasons unsuitable extinguishing agents:** *Water with full jet*

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

6. ACCIDENTAL RELEASE MEASURES

· **Person-related safety precautions:** *Wear protective equipment. Keep unprotected persons away.*

· **Measures for environmental protection:**

Prevent seepage into sewage system, work-pits and cellars.

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

· **Measures for cleaning/collecting:**

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

Ensure adequate ventilation.

7. HANDLING AND STORAGE

· Handling:

· Information for safe handling:

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

· Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

· Storage:

· Requirements to be met by storerooms and receptacles: Store in a cool location.

· Information about storage in one common storage facility: Not required.

· Further information about storage conditions:

Keep receptacle tightly sealed.

Store in cool, dry conditions in well sealed receptacles

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

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

· Components with limit values that require monitoring at the workplace:

471-34-1 Calciumcarbonate (25-50%)

PEL 15*; 5** mg/m₃

*Total dust **Respirable fraction

REL 10*; 5** mg/m₃

*Total dust **Respirable fraction

TLV 10 mg/m₃

(e)

108-88-3 Toluene (2.5-10%)

PEL Short-term value: C 300; 500* ml/m₃

Long-term value: 200 ml/m₃

*10-min peak per 8-hr shift

REL Short-term value: 560 mg/m₃, 150 ml/m₃

Long-term value: 375 mg/m₃, 100 ml/m₃

TLV 188 mg/m₃, 50 ml/m₃

Skin; BEI

67-56-1 Methanol (<1.0%)

PEL 260 mg/m₃, 200 ml/m₃

REL Short-term value: 325 mg/m₃, 250 ml/m₃

Long-term value: 260 mg/m₃, 200 ml/m₃

Skin

TLV

Short-term value: 328 mg/m₃, 250 ml/m₃

Long-term value: 262 mg/m₃, 200 ml/m₃

Skin; BEI

· CAS No. Designation of material % Type Value Unit

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 that were valid during the creation were used as basis.

· Personal protective equipment:

· General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the skin.

Avoid close or long term contact with the skin.

Avoid contact with the eyes and skin.

· Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

· **Protection of hands:**

Protective gloves

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

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

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

· **Material of 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 cannot be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

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

· **Eye protection:**

Tightly sealed goggles

Goggles recommended during refilling.

· **Body protection:** Use protective suit.

9. PHYSICAL AND CHEMICAL PROPERTIES

· **General Information**

Form: Fluid

Color: Grey

Odor: Characteristic

· **Change in condition**

Melting point/Melting range: Undetermined.

Boiling point/Boiling range: 80°C

· **Flash point:** -10°C (DIN 53213)

· **Ignition temperature:** 200.0°C

· **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapor mixtures are possible.

· **Explosion limits:**

Lower: 0.6 Vol %

Upper: 8.0 Vol %

· **Vapor pressure at 20°C:** 61.0 hPa

· **Vapor pressure at 50°C:** 231 hPa

· **Density at 20°C:** 1.020 g/cm₃ (DIN 51757)

· **Solubility in / Miscibility with**

Water: Not miscible or difficult to mix.

· **Viscosity:**

Kinematic at 20°C: 17 s (ISO 6 mm)

· **Solvent content:**

Organic solvents: 52.7 %

VOC content: 11.4 %

· **Solids content:** 47.3 % (DIN 53216)

· **Additional information:**

VOC (EU): 52.66 %

VOC (EU): 537.1 g/l

10. STABILITY AND REACTIVITY

· **Thermal decomposition / conditions to be avoided:**

No decomposition if used according to specifications.

· **Dangerous reactions** No dangerous reactions known.

· **Dangerous products of decomposition:** No dangerous decomposition products known.

11. TOXICOLOGICAL INFORMATION

· **Acute toxicity:**

· **LD/LC50 values that are relevant for classification:**

64742-95-6 Solvent naphtha (petroleum), light aroma.

Oral LD50 >6800 mg/kg (RAT)

Dermal LD50 >3400 mg/kg (RAT)

Inhalative LC50/4 h >10.2 mg/l (RAT)

· **Primary irritant effect:**

· **on the skin:** Irritant to skin and mucous membranes.

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

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

· **Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:

Irritant

12. ECOLOGICAL INFORMATION

· **Ecotoxicological effects:**

· **Aquatic toxicity:**

64742-49-0 Naphtha (petroleum), hydrotreated light

EC50/48 h 10 mg/l (PHAEOPHYTA)

· **Remark:** Toxic for fish

· **General notes:**

Water hazard class 2 (Self-assessment): hazardous for water

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

Danger to drinking water if even small quantities leak into the ground.

Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

13. DISPOSAL CONSIDERATIONS

Product:

· **Recommendation:**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

· **Uncleaned packagings:**

· **Recommendation:** Disposal must be made according to official regulations

14. TRANSPORT INFORMATION

· **DOT regulations:**

· **Hazard class:** 3

· **Identification number:** UN1139

UN1139

· **Packing group:** II

· **Proper shipping name (technical name):** COATING SOLUTION

· **Label** 3

· **Land transport ADR/RID (cross-border):**

· **ADR/RID class:** 3 Flammable liquids

· **Danger code (Kemler):** 33

· **UN-Number:** 1139

· **Packaging group:** II

· **Description of goods:** 1139 COATING SOLUTION, special provision 640D

· **Maritime transport IMDG:**

· **IMDG Class:** 3

· **UN Number:** 1139

· **Label** 3

· **Packaging group:** II

· **EMS Number:** F-E,S-E

· **Marine pollutant:** No

· **Proper shipping name:** COATING SOLUTION

· **Air transport ICAO-TI and IATA-DGR:**

· **ICAO/IATA Class:** 3

· **UN/ID Number:** 1139

· **Label** 3

· **Packaging group:** II

· **Proper shipping name:** COATING SOLUTION

· **Transport/Additional information:**

For ADR and IMDG: Transport and packing are in accordance with the regulation for limited quantities. These products are therefore classified as non- dangerous goods.

15. REGULATIONS

Product related hazard information:

The product has been classified and marked in accordance with directives on hazardous materials.

· **Hazard symbols:**

Xi Irritant

F Highly flammable

N Dangerous for the environment

· **Risk phrases:**

11 Highly flammable.

38 Irritating to skin.

51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

67 Vapors may cause drowsiness and dizziness

· **Safety phrases:**

9 Keep container in a well-ventilated place.

16 Keep away from sources of ignition - No smoking.

23 Do not breathe fumes / aerosol

24/25 Avoid contact with skin and eyes.

51 Use only in well-ventilated areas.

61 Avoid release to the environment. Refer to special instructions/Safety data sheets

· **National regulations:**

· **Information about limitation of use:** None

· **Water hazard class:** Water hazard class 2 (Self-assessment): hazardous for water.

· **please note:** 3-1

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.

· Relevant R-phrases

10 Flammable.

11 Highly flammable.

20 Harmful by inhalation.

23/24/25 Toxic by inhalation, in contact with skin and if swallowed.

37 Irritating to respiratory system.

38 Irritating to skin.

39/23/24/25 Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.

51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

65 Harmful: may cause lung damage if swallowed.

66 Repeated exposure may cause skin dryness or cracking

67 Vapors may cause drowsiness and dizziness

· Department issuing MSDS: *Product safety department.*

· Contact:

Ing. H. M. J. van de Donk

Manager Research & Development

· * Data compared to the previous version altered.

USA