

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

1.1. Product identifier:

Product name: SOLL OVERCOATABLE PROTECTIVE STONE CHIP IN AEROSOL

Article number: SU B500; SU G500; SU W500

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

Sector of Use

SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen).

SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites.

SU21 Consumer uses: Private households / general public / consumers.

Process category

PROC7 Industrial spraying

PROC11 Non industrial spraying

Application of the substance / the mixture: Surface protection.

1.3. Manufacturer/Supplier:

UAB HELVINA

Parko str. 96, Ramučiai

LT 54464 Kaunas district

Lithuania

Tel.: +370 37308901

Fax: +370 37308902

E-mail: info@helvina.lt

www.helvina.lt

1.4. Further information obtainable from: Laboratory

Emergency telephone number:

Poison control and information office: Tel.: +370 5 236 2052 or +370 687 53378

2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008:



GHS02

Flam. Aerosol 1, H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.



GHS08

Asp. Tox. 1, H304 May be fatal if swallowed and enters airways.



GHS09

Aquatic Chronic 2, H411 Toxic to aquatic life with long lasting effects.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.
Eye Irrit. 2 H319 Causes serious eye irritation.
STOT SE 3 H336 May cause drowsiness or dizziness.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC:



F+; Extremely flammable
R12 Extremely flammable.

Printing date: 29-09-2014

Revision: 29-09-2014



N; Dangerous for the environment
 R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
 R66-67: Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness.

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.

Warning! Pressurized container.

Has a narcotizing effect.

Classification system:

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

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008:

The product is classified and labelled according to the CLP regulation.

Hazard pictograms:



GHS02



GHS07



GHS08



GHS09

Signal word: Danger

Hazard-determining components of labelling:

Naphtha (petroleum), hydrotreated light (Benzene < 0,1%)

Hazard statements:

H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

H304 May be fatal if swallowed and enters airways.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements:

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/sparks/open flames/hot surfaces. - No smoking.

P251 Pressurized container: Do not pierce or burn, even after use.

P211 Do not spray on an open flame or other ignition source.

P280 Wear protective gloves / eye protection.

P273 Avoid release to the environment.

P271 Use only outdoors or in a well-ventilated area.

P260 Do not breathe mist/vapours/spray.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P331 Do NOT induce vomiting.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

P403 Store in a well-ventilated place.

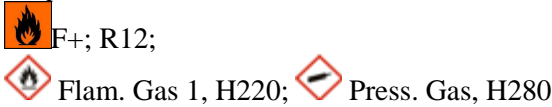

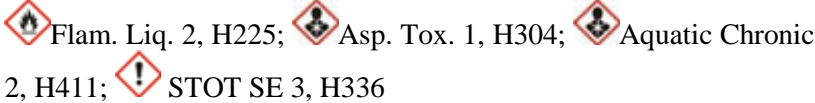

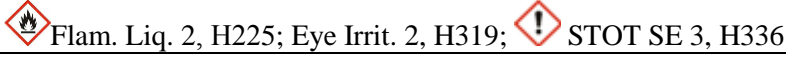
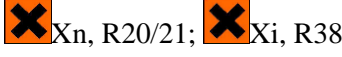
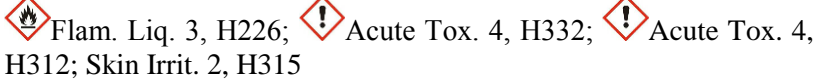

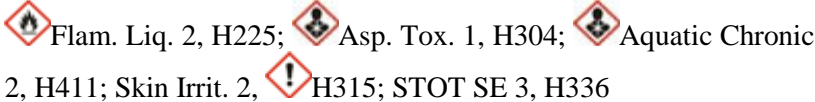


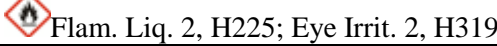
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Additional information:

EUH066 Repeated exposure may cause skin dryness or cracking.

2.3 Other hazards

Results of PBT and vPvB assessment**PBT:** Not applicable.**vPvB:** Not applicable.**3. COMPOSITION/INFORMATION ON INGREDIENTS****3.1. Chemical characterization: Substances****Additional information:**

CAS: 74-98-6 EINECS: 200-827-9 Reg. no.: 01-2119486944-21	Propane  F+; R12; Flam. Gas 1, H220; Press. Gas, H280	25-<50%
CAS: 64742-49-0 EB number: 920-750-0 Reg. no.: 01-2119473851-33	Naphtha (petroleum), hydrotreated light (Benzene < 0,1%)  Xn, R65; F, R11; N, R51/53 R66-67  Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; STOT SE 3, H336	10-<25%
CAS: 78-93-3 EINECS: 201-159-0 Reg.no.: 01- 2119457290-43	Butanone  Xi, R36; F, R11 R66-67  Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	10-<20%
CAS: 1330-20-7 EINECS: 215-535-7 Reg. no.: 01-2119488216-32	Xylene  Xn, R20/21; Xi, R38 R10  Flam. Liq. 3, H226; Acute Tox. 4, H332; Acute Tox. 4, H312; Skin Irrit. 2, H315	3-<10%
CAS: 64742-49-0 EB number: 927-510-4 Reg. no.: 01-2119475515-33	Naphtha (petroleum), hydrotreated light "(Note P; -R45, R46; <0,1% benzene)"  Xn, R65; Xi, R38; F, R11; N, R51/53 R67  Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; STOT SE 3, H336	3-<10%
CAS: 107-98-2 EINECS: 265-191-7 Reg. no. 01- 2119457435-35	1-methoxy-2-propanol R10-67  Flam. Liq. 3, H226; STOT SE 3, H336	3-<10%
CAS: 67-17-5 EINECS: 200-578-6 Reg. no. 01- 2119457610-43	Ethanol  F, R11  Flam. Liq. 2, H225; Eye Irrit. 2, H319	0,1- <0,3%

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

3.2. Chemical characterization: Mixtures**Description:** Active substance with propellant.**Dangerous components:** -**Additional information:** -**4. FIRST AID MEASURES****4.1. Description of first aid measures**

Printing date: 29-09-2014

Revision: 29-09-2014

AFTER INHALATION: Supply fresh air; consult doctor in case of complaints.

AFTER SKIN CONTACT: Generally the product does not irritate the skin.

AFTER EYE CONTACT: Rinse opened eye for several minutes under running water.

AFTER SWALLOWING: Do not induce vomiting; call for medical help immediately.

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

No further relevant information available.

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

No further relevant information available.

5. FIRE-FIGHTING MEASURES

5.1. Extinguishing media

SUITABLE EXTINGUISHING MEDIA: Water haze, fire-extinguishing powder, carbon dioxide, alcohol resistant foam.

EXTINGUISHING MEDIA WHICH SHALL NOT BE USED FOR SAFETY REASONS: Water with full jet.

5.2. Special hazards arising from the substance or mixture

No further relevant information available.

5.3. Advice for fire-fighters

PROTECTIVE EQUIPMENT: Mount respiratory protective device.

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

6.2. Environmental precautions

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

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

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

6.3. Methods and material for containment and cleaning up

Ensure adequate ventilation.

Do not flush with water or aqueous cleansing agents.

6.4. 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

7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

Information about fire - and explosion protection:

Do not spray onto a naked flame or any incandescent material.

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use.

7.2 Conditions for safe storage, including any incompatibilities

Storage

Requirements to be met by storerooms and receptacles:

Store in a cool location.

Observe official regulations on storing packaging's with pressurized containers.

Information about storage in one common storage facility:

Printing date: 29-09-2014

Revision: 29-09-2014

Observe official regulations on storing packaging's with pressurized containers.

Further information about storage conditions:

Keep receptacle tightly sealed.

Store in cool, dry conditions in well-sealed receptacles.

Protect from heat and direct sunlight.

7.3 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.

8.1. Control parameters**Ingredients with limit values that require monitoring at the workplace:**

PROPANE (CAS: 74-98-6)

OEL Short-term value: 3600 mg/m³, 2000 ppm

Long-term value: 1800 mg/m³, 1000 ppm

BUTANONE (CAS: 78-93-3)

WEL Short-term value: 899 mg/m³, 300 ppm

Long-term value: 600 mg/m³, 200 ppm

Sk, BMGV

XYLENE (CAS: 1330-20-7)

WEL Short-term value: 441 mg/m³, 100 ppm

Long-term value: 600 mg/m³, 200 ppm

Sk, BMGV

1-METHOXY-2-PROPANOL (CAS: 107-98-2)

WEL Short-term value: 560 mg/m³, 150 ppm

Long-term value: 375 mg/m³, 100 ppm

Sk

ETHANOL (CAS: 64-17-5)

WEL Long-term value: 1920 mg/m³, 1000 ppm

DNELs

NAPHTHA (PETROLEUM), HYDROTREATED LIGHT (CAS: 64742-49-0)

Oral DNEL Long term-systemic 699 mg/kg bw/day (Consumer)

Dermal DNEL Long term-systemic 699 mg/kg bw/day (Consumer)

773 mg/kg bw/day (Worker)

Inhalative DNEL Long term-systemic 608 mg/m³ (Consumer)

2035 mg/m³ (Worker)

BUTANONE (CAS: 78-93-3)

Oral DNEL Long term-systemic 31 mg/kg bw/day (Consumer)

Dermal DNEL Long term-systemic 412 mg/kg bw/day (Consumer)

1161 mg/kg bw/day (Worker)

Inhalative DNEL Long term-systemic 106 mg/m³ (Consumer)

600 mg/m³ (Worker)

Ingredients with biological limit values:

BUTANONE (CAS: 78-93-3)

BMGV 70 µmol/L

Medium: urine

Sampling time: post shift

Parameter: butan-2-one

XYLENE (CAS: 1330-20-7)

BMGV 650 mmol/mol creatinine

Medium: urine

Sampling time: post shift

Parameter: methyl hippuric acid

Printing date: 29-09-2014

Revision: 29-09-2014

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

8.2 Exposure controls

Personal protective equipment:

General protective and hygienic measures:

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.



RESPIRATORY PROTECTION:

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.

Filter AX/P2

PROTECTION OF HANDS: Protective gloves. Solvent resistant gloves.

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

Material of gloves: Nitrile rubber, NBR.

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

EYE PROTECTION: Tightly sealed goggles.

BODY PROTECTION: Use protective suit.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties:

Appearance:	Aerosol
Colour:	White, grey, black
Odour:	Characteristic
Odour threshold:	Not determined
pH value:	Not determined
Melting point / melting range:	Undetermined
Boiling point / boiling range:	-44 °C
Flash point:	-97 °C
Flammability (solid, gaseous):	Not applicable
Ignition temperature:	> 200 °C
Decomposition temperature:	Not determined
Self-igniting:	Product is not self-igniting
Danger of explosion:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
Explosion limits (lower / upper):	0.7 Vol % / 20.0 Vol %
Vapour pressure at 20 °C:	4 Bar
Density at 20 °C:	0,782 g/cm ³
Relative density:	Not determined
Vapour density:	Not determined
Evaporation rate:	Not determined
Solubility in / miscibility with water:	Not miscible or difficult to mix
Partition coefficient: n-octanol/water:	Not determined
Viscosity (dynamic / kinematic):	Not determined
Organic solvents:	75.0 %
Solid content:	25.0 %

9.2. Other information:

No further relevant information available.

10. STABILITY AND REACTIVITY

10.1. Reactivity:

10.2. Chemical stability:

10.3. Possibility of hazardous reactions:

No dangerous reactions known.

10.4. Conditions to avoid:

No further relevant information available.

10.5. Incompatible materials:

No further relevant information available.

10.6. Hazardous decomposition products:

No dangerous decomposition products known.

10.7. Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects.

Acute toxicity:

LD/LC50 values relevant for classification:

NAPHTHA (PETROLEUM), HYDROTREATED LIGHT (CAS: 64742-49-0)

Oral	LD50	> 5000 mg/kg (rat)
Dermal	LD50	> 2800 mg/kg (rabbit)
Inhalative	LC50/4h	> 23 mg/l (rat)

BUTANONE (CAS: 78-93-3)

Oral	LD50	> 2193 mg/kg (rat)
Dermal	LD50	> 5000 mg/kg (rabbit)

XYLENE (CAS: 1330-20-7)

Oral	LD50	4300 mg/kg (rat)
Dermal	LD50	2000 mg/kg (rabbit)

NAPHTHA (PETROLEUM), HYDROTREATED LIGHT (CAS: 64742-49-0) "(Note P; -R45, R46; <0,1% benzene)"

Oral	LD50	4300-6000 mg/kg (rat)
Dermal	LD50	> 3000 mg/kg (rabbit)
Inhalative	LC50/4h	> 60 mg/l (rat)

Primary irritant effect:

ON THE SKIN: No irritating effect.

ON THE EYE: No irritating effect.

Sensitization: No sensitizing effects known.

12. ECOLOGICAL INFORMATION

12.1. Toxicity:

Acquatic toxicity:

NAPHTHA (PETROLEUM), HYDROTREATED LIGHT (CAS: 64742-49-0)

EL50/48h	3 mg/l (Daphnia magna)
EL50 (72h)	10-30 mg/l (Pseudokirchneriella subcapitata)
LL50 (96h)	> 13,4 mg/l (Oncorhynchus mykiss (96h))
LOEC (21 days)	0,32 mg/l (Daphnia magna)
NOEC (21 days)	0,17 mg/l (Daphnia magna)
NOELR (72h)	10 mg/l (Pseudokirchneriella subcapitata)

BUTANONE (CAS: 78-93-3)

EC50 (48h)	308 mg/l (Daphnia magna)
LC50 (96h)	2993 mg/l (Pimephales promelas)

XYLENE (CAS: 1330-20-7)

Printing date: 29-09-2014

Revision: 29-09-2014

EC50 (48h) 3,2-9,5 mg/l (Daphnia magna)

LC50 (96h) 8,9-16,4 mg/l (Pimephales promelas)

NAPHTHA (PETROLEUM), HYDROTREATED LIGHT (CAS: 64742-49-0) "(Note P; -R45, R46; <0,1% benzene)"

LC50 35-37 mg/l (Fish)

12.2. Persistence and degradability:

Easily biodegradable.

12.3. Bio accumulative potential:

No further relevant information available.

12.4. Mobility in soil:

No further relevant information available.

12.5. Results of PBT and vPvB assessment:

PBT: Not applicable.

vPvB: Not applicable.

12.6. Other adverse effects:

No further relevant information available.

Ecotoxicological effects:**Remark:** Toxic for fish.**Additional ecological information:****General notes:**

Water hazard class 2 (German Regulation) (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**13.1. Waste treatment methods:****Recommendation:**

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

European waste catalogue

08 02 99 Wastes not otherwise specified.

Uncleaned packaging:**Recommendation:** Disposal must be made according to official regulations.**14 TRANSPORT INFORMATION****14.1. UN number:**

ADR, IMDG, IATA

UN 1950

14.2. UN proper Shipping Name:

ADR

IMDG

UN1950 AEROSOLS, ENVIRONMENTALLY HAZARDOUS

AEROSOLS (Naphtha (petroleum), hydrotreated light

(Benzene < 0,1%), Naphtha (petroleum), hydrotreated

light "(Note P; -R45, R46; <0,1% benzene)"), MARINE POLLUTANT

AEROSOLS, flammable

IATA

14.3. Transport hazard class(es):

ADR



Class:

2 5F Gases

Label:

2.1

IMDG

Printing date: 29-09-2014

Revision: 29-09-2014



Class: 2.1
 Label: 2.1
 IATA



Class: 2.1
 Label: 2.1

14.4. Packing group:

ADR, IMDG, IATA Void

14.5. Environmental hazards:Product contains environmentally hazardous substances:
Naphtha (petroleum), hydrotreated light

Marine pollutant:

Yes

Symbol (fish and tree)

Special marking (ADR):

Symbol (fish and tree)

14.6. Special precautions for user:

Warning: Gases.

Danger code (Kemler):

-

EMS Number:

F-D,S-U

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

Not applicable

Transport/Additional information:

ADR

Limited quantities (LQ): 1L

Excepted quantities (EQ): Code: E0

Not permitted as Excepted Quantity

Transport category:

2

Tunnel restriction code:

D

IMDG

Limited quantities (LQ): 1L

Excepted quantities (EQ): Code: E0

Not permitted as Excepted Quantity

UN "Model Regulation":

UN1950, AEROSOLS, ENVIRONMENTALLY HAZARDOUS, 2.1

15 REGULATORY INFORMATION**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****National regulations:****Technical instructions (air):**

CLASS SHARE IN %

NK 50-<75

VOC-CH 74.99 %

VOC-EU 586.5 g/l

Danish MAL Code 5-3

15.2. 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.

Relevant phrases:

Printing date: 29-09-2014

Revision: 29-09-2014

- H220 Extremely flammable gas.
H225 Highly flammable liquid and vapour.
H226 Flammable liquid and vapour.
H280 Contains gas under pressure; may explode if heated.
H304 May be fatal if swallowed and enters airways.
H312 Harmful in contact with skin.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H336 May cause drowsiness or dizziness.
H411 Toxic to aquatic life with long lasting effects.
R10 Flammable.
R11 Highly flammable.
R12 Extremely flammable.
R20/21 Harmful by inhalation and in contact with skin.
R36 Irritating to eyes.
R38 Irritating to skin.
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R53 May cause long-term adverse effects in the aquatic environment.
R65 Harmful: may cause lung damage if swallowed.
R66 Repeated exposure may cause skin dryness or cracking.
R67 Vapours may cause drowsiness and dizziness.

Abbreviations and acronyms:

- RID: Regulations Concerning the International Transport of Dangerous Goods by Rail
ICAO: International Civil Aviation Organization
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
MAL-Code: Regulation for the labeling concerning inhalation hazards, Denmark
DNEL: Derived No-Effect Level (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
Flam. Gas 1: Flammable gases, Hazard Category 1
Flam. Aerosol 1: Flammable aerosols, Hazard Category 1
Press. Gas: Gases under pressure: Compressed gas
Flam. Liq. 2: Flammable liquids, Hazard Category 2
Flam. Liq. 3: Flammable liquids, Hazard Category 3
Acute Tox. 4: Acute toxicity, Hazard Category 4
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3
Asp. Tox. 1: Aspiration hazard, Hazard Category 1
Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2

The information of this Material Safety Data Sheet is based on the present state of knowledge and on current EU and national laws, as the users' working conditions are beyond our knowledge and control. The product is not to be used for other purposes than those specified, without first obtaining written handling instruction. It is always the responsibility of the user to take all necessary steps in order to fulfill the demand laid down in the local rules and legislation. The information in this Material Safety Data Sheet is meant as a description of the safety requirements of the product and it is not to be considered as a guarantee of the product's properties.