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MATERIAL SAFETY DATA SHEET drawn up in accordance with COMMISSION REGULATION (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals REACH

Section 1. Identification of the substance / mixture and company identification.

1.1. Product ID.

Product name: Unscented turpentine 1.2.

Relevant identified uses of the substance or mixture and uses advised against. identified uses: product used in the conservation of works of art as an organic solvent - for professional use uses advised against: other than those listed above 1.3. **Details of the supplier of the safety data sheet.**

Company name and address: ROMAN SZMAL ART, ul. Królowej Jadwigi 34, 30-209 Kraków **REGON number:** 356815752 **Supplier telephone number:** 48 (12) 427 90 40 **Fax number:** 48 (12) 427 90 41 **1.4. Emergency telephone number. 998 or 112, or the nearest local PSP unit. Toxicological information in Poland: 042/631 47 24 (from 7.00 to 15.00).**

Section 2. Hazards identification.

2.1. Classification of the substance or mixture.

Regulation (EC) 1272/2008: For the full text of the H-phrases mentioned in this section, see section 2.2.

Classification

Flammable liquids- Category 3- H226

Aspiration toxicity- Category 1 - H304

Specific target organ systemic toxicity (single exposure) - Category 3-H336

Directive 67/548 / EEC and 1999/45 / EC: The full text of the phrases mentioned in this section is given in section 16.

The product is classified as hazardous in accordance with directives 67/548 / EEC and 1999/45 / EC and with the Act of January 11, 2001 on chemical substances and preparations (DU No. 152/2009, item 1222).

Symbols

Xn- Harmful

Classification

R10 Xn: R65,

R65, R 67 **2.2. Label****elements** Labeling according

to Regulation No. 1272/2008 Label: EC No. 919-857-5

Hazard pictograms



Signal word: DANGER Hazard statements H:

H226 - Flammable liquid and vapor.

H304 - May be fatal if swallowed and enters airways.

H336 - May cause drowsiness or dizziness.

Precautionary phrases:

P370 + P 378 - In case of fire, use for extinction: carbon dioxide (CO2) or dry chemical substance.

P261- Avoid breathing dust / fume / gas / mist / vapors / spray.

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

P280 - Wear protective gloves and eye / face protection.

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

P331- Do not induce vomiting.

Supplementary phrases:

EUH066 - Repeated exposure may cause skin dryness or cracking.

Contains: Hydrocarbons, C9 - C11, n-alkanes, isoalkanes, cycloalkanes, <2% aromatics.

2.3. Other dangers.

Physical and chemical properties

Vapors can form explosive mixtures with air.

Vapors are heavier than air and spread over the ground.

Effect on the environment

Do not discharge into the environment.

Section 3. Composition / information on ingredients.

3.1. Substances

Chemical nature: A complex and variable combination of paraffinic and cyclic hydrocarbons containing predominantly C9 to C11 and boiling in the approximate range of 130 ° C to 210 ° C.

Aromas content <2%.

Chemical name: Hydrocarbons, C9 - C11, n-alkanes, isoalkanes, cycloalkanes, <2% aromatics EC

no.: 919-857-5 REACH registration no.: 01-2119463258-33 CAS no.: Content% (m / m): 100 %

Classification 67/548: R10, Xn; R65, R 66, R67 Classification Reg. 1272/2008: Flam. Liquid 3 (H226)

Asp.tox.1 (H304) STOT SE 3 (H336)

Additional information

The substance definition according to the EC and the related classification and labeling were developed on the basis of the EC regulation 1907/2006 (REACH). The information on related CAS numbers is provided in Section 15 of this safety data sheet.

Total aromatics: <0.03%.

Full text of R-phrases see section 16.

Full text of H-phrases see section 16.

3.2. Mixtures Not

applicable

Section 4. First aid measures.

4.1 Description of first aid

measuresGeneral advice IN CASE OF

SERIOUS SYMPTOMS, CALL A DOCTOR OR EMERGENCY SERVICES

Eye contact Rinse

thoroughly with plenty of water, also under the eyelids. Keep eyes wide open while rinsing.

Skin contact

Remove contaminated clothes and shoes. Clean with soap and water.

Inhalation

In case of exposure to high concentrations of vapors, fumes or sprays, remove the injured from the contaminated area, keep warm and rest.

Ingestion

If swallowed, do not induce vomiting. Call a physician immediately.

Risk of the product entering the lungs during vomiting after ingestion.

In such a case, the casualty should be immediately transported to the hospital.

Protection of first aiders: Use personal protective equipment.

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

Eye contact

Contact with eyes may cause irritation.

Skin contact

Redness.

Repeated contact may cause skin dryness or cracking.

Inhalation

Vapors inhaled in high concentrations have a narcotic effect on the central nervous system. They irritate the eyes. They cause nausea and unconsciousness.

Ingestion

Ingestion may lead to gastrointestinal irritation, nausea, vomiting and diarrhea.

May cause impairment of the central nervous system.

Harmful: If accidentally ingested, the product may enter the lungs due to low viscosity and may

lead to sudden development of severe impairment of pulmonary respiration (medical attention within 48 hours).

4.3 Indication of any immediate medical attention and special treatment needed Notes for physician Proceed according to symptoms.

Section 5. Fire-fighting measures. 5.1

Extinguishing media Suitable extinguishing media Foam. Powder. Carbon dioxide (CO₂). Water spray.

Unsuitable extinguishing media

Do not use a solid water stream, as it may scatter and spread fire.

5.2 Special hazards arising from the substance or mixture Special hazards

Incomplete combustion and pyrolysis may produce gases of variable toxicity, such as CO, CO₂, various hydrocarbons, aldehydes and soot. They can be very dangerous if inhaled in confined spaces or if they occur in high concentrations.

5.3 Advice for firefighters Special

protective equipment for firefighters: During a fire, wear self-contained breathing apparatus and firefighters' clothing. face and in the hypertensive version.

Other

information Cool containers and tanks with water

spray. all unburned residues and contaminated fire extinguishing water should be disposed of in accordance with local regulations.

Section 6. Accidental release measures 6.1 Personal precautions, protective

equipment and emergency procedures General information Use personal protective equipment.

Evacuate unnecessary personnel.

Provide adequate ventilation, especially in confined areas.

Remove all ignition sources (no smoking, torches, sparks or flames in immediate vicinity).

Do not touch or walk on the spilled product. 6.2

Environmental precautions General Information Prevent further leakage or spillage if safe to do so.

Dig to collect large spills of liquid.

Do not allow the penetration of the soil, watercourses and drains.

For larger spills, notify appropriate authorities if the situation cannot be contained quickly.

6.3 Methods and materials for containment and cleaning up. Methods of cleaning up contamination Use non-sparking tools and explosion-proof electrical equipment. Contain spill, then collect with non-flammable absorbent material (e.g. sand, earth, kieselguhr, vermiculite) and place in a container for disposal in accordance with local / national regulations (see section 13).

After the recovery process, rinse the surface with water.

6.4 Reference to other sections

Personal protective equipment

See section 8 for more details.

Waste disposal

See section 13.

Other

information Remove all sources of ignition.

Stop all work that requires open flames, stop all vehicles, turn off all machinery and equipment that may cause sparks or flames.

Section 7. Handling and storage of substances and mixtures. 7.1 Precautions

for safe handling Safe handling recommendations For personal protection see section 8. Use only in well-ventilated areas. Do not inhale vapors or mist.

Avoid contact with skin, eyes and clothes.

Technical measures

Provide adequate ventilation.

Do not spray under high pressure (> 3 bar).

WHEN HANDLING THE PRODUCT: To avoid ignition of vapors by electrostatic discharge, all metal parts of the equipment must be grounded. Do not spill the product during loading and ensure that the product is poured slowly, especially at the beginning of the operation.

Preventing Fire and Explosions PERFORM ALL OPERATIONS ON A COOL STATION ONLY. AND DEGASED TANKS IN VENTILATED ROOMS (TO AVOID

THE RISK OF EXPLOSION).

No smoking.

Use explosion-proof equipment.

Take precautionary measures against static discharge.

Do not use compressed air for filling, unloading and other manipulations with the product.

Design installations (machinery and equipment) to prevent the spread of burning product (tanks, retention systems, catchers in drainage systems).

Occupational

hygiene Ensure compliance with strict hygiene regulations by personnel exposed to the risk of contact with the product. When using, do not eat, drink or smoke. Provide regular cleaning of equipment, work area and clothes. Do not wipe the hands with rags that have become dirty with the product. Do not use abrasives, solvents or fuels.

Wash hands before breaks and at the end of the working day.

7.2 Conditions for safe storage, including any incompatibilities Technical measures / conditions Design the installations to avoid accidental emissions of the product (eg due to broken seal in storage) onto hot casings or electrical contacts.

Storage installations should be equipped with special embankments to prevent contamination of soil or water in the event of leakage or spillage. Use explosion-proof electrical equipment.

Store in banded places.

Store in a dry, cool and well-ventilated place.

Keep away from open flames, hot surfaces and sources of ignition. Ground packages, tanks, and transmission and receiving equipment.

Store at room temperature.

Packages should be tightly closed and properly labeled.

Materials to Avoid Strong acids.

Strong oxidizers.

Packaging materials

Keep only in the original packaging or in a packaging suitable for this type of product.

Steel and stainless steel packaging recommended.

7.3 Specific end uses

Section 8. Exposure controls / personal protection.

8.1. Control parameters.

NDS	NDSch	OEL DSB Hydrocarbons
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C9-C11 1200mg / m³ - (according to the Regulation of the Ministry of Labour and Social Policy of the Czech Republic, No. 2002; item 1833, as amended)

8.2. Exposure controls.

Occupational exposure controls

Applied technical measures

When working in confined spaces (tanks, containers, etc.), make sure that there is a supply of air for breathing and wear the recommended equipment. Use technical solutions to meet occupational exposure limit requirements.

Individual protection measures, protective equipment

General information Before the use of personal

protective equipment, technical protective measures should be implemented.

These recommendations apply to the delivered product.

If the product is used in mixtures, it is recommended to contact the appropriate protective equipment supplier.

Respiratory protection Use

a self-contained breathing apparatus during rescue operations and during maintenance work in storage tanks.

When necessary or for extremely short-term activities in the presence of an atmosphere contaminated with the product, it is necessary to wear protective respiratory equipment.

The use of breathing apparatus must strictly comply with the manufacturer's instructions and the type regulations and use.

Eye protection

If splashes are likely, wear: Glasses with side shields.

Skin and body protection

Appropriate protective clothing and footwear or long boots are recommended.

Hand protection: Waterproof gloves resistant to aliphatic hydrocarbons

Repeated or chronic contact

Type of material	Glove thickness	Nitrile rubber > 0.45 mm	Permeation time	Remarks
		Fluorocarbon rubber, PVA > 480 spray contact by	> 480 min	EN 374
			EN 374	

Type of material	Glove thickness	Chloroprene > 0.7 mm	Permeation time	Remarks
		Nitrile rubber > 0.2 mm Environmental exposure	> 60 mins	EN 374
			> 60 mins	EN 374

General information

Do not allow the product to contaminate the groundwater.

Section 9. Physical and Chemical Properties:

9.1 Information on basic physical and chemical properties

Color: Colorless

Physical state at 20 ° C: Liquid

Odor: Petroleum solvent

Property	Boiling point / range	Remarks	Method
150-205 ° C boiling point	-	Has no use	-
		-	ISO 3405
Flash point	> 41 ° C	-	ISO 2719
Evaporation rate	65	Ethyl ether = 1	DIN 53170
Flammability limits in air - Upper	-		
Lower Vapor pressure at 20 ° C (kPa)	6.5%		
	0.6%		
	2 hPa	-	-
Vapor density		No information available	-
Density	780-800 kg / m3 at 15 ° C		ISO 12185
Water solubility	-	Has no use	-
Solubility in other solvents	-	No information available	-
Partition coefficient n-octanol / water, log Pow	-	Has no use	-
Auto-ignition temperature	> 230 °	-	ASTM E 659
Kinematic viscosity	C 1.25 mm2 / s	at 25 ° C	ASTM D 445

properties

May form explosive mixtures with air.

Oxidizing properties

Has no use

Possibility of hazardous reactions

Has no use

9.2 Other information

Surface tension: 0.0237 N / m at 25 ° C EN 14370

Section 10. Stability and reactivity.

10.1 Reactivity

10.2 Chemical stability

Stability

The product is stable under the recommended storage conditions.

10.3 Possibility of hazardous reactions

Dangerous reactions

None under normal use conditions.

10.4 Conditions to avoid

Conditions to Avoid

Hot, flames, sparks. Take precautionary measures against static discharge.

10.5 Incompatible materials

Materials to avoid Strong acids.

Strong oxidizers.

10.6 Hazardous decomposition

products Hazardous decomposition

products Incomplete combustion and pyrolysis give rise to potentially toxic gases such as CO, CO, aldehydes, various hydrocarbons and soot.

Section 11. Toxicological information.

11.1 Information on toxicological effects Acute toxicity

- Product Information Skin contact Redness.

Repeated contact may cause skin dryness or cracking.

Eye contact

Contact with eyes may cause irritation.

Inhalation

Inhalation may cause drowsiness and dizziness. May cause irritation. Inhalation may cause headache, nausea, vomiting, or an altered state of consciousness.

Ingestion

Ingestion may lead to gastrointestinal irritation, nausea, vomiting and diarrhea.

May cause impairment of the central nervous system.

Harmful: In case of accidental ingestion, the product may enter the lungs due to its low viscosity and may lead to sudden development of a very severe impairment of pulmonary respiration (medical assistance indicated within 48 hours).

Acute toxicity - Component Information

Chemical name LD50 oral Hydrocarbons 69

mg / kg bw (OECD 401 rat)

Dermal LD 50

LD 50 (24h) > 5000 mg / kg bw (rabbit OECD 402) (vapors) (rat - OECD 403)

LC 50 inhalation

LC 50 (8h) > 5000 mg / m3

Sensitization Not classified as a sensitizing product.

Specific effects

Carcinogenicity

The product is not classified as a carcinogen.

Mutagenicity

The mutagenic potential of the substance has been extensively tested in many tests, both in-vivo and in-vitro ..

Cell mutagenicity Genetic

toxicity: negative for microorganisms Reproducibility No information available.

Developmental Toxicity

The results of the basic developmental toxicity studies on the substance and the OECD's screening for developmental toxicity revealed no incidence of developmental toxicity to rats.

Repeated dose toxicity

Subchronic toxicity No information available.

Target Organ Effects (STOT)

Effects on target organs

Central nervous system. (STOT)

Systemic toxicity to specific target organs (single exposure)

Vapors may cause drowsiness and dizziness.

Systemic toxicity to specific target organs (repeated exposure)

Based on the information obtained, it is not known.

Aspiration toxicity Liquid

may enter the lungs and cause damage (chemical pneumonia, potentially life threatening)

Other information

Frequent or repeated skin contact may destroy the lipoacid layer and may cause dermatosis.

Section 12. Ecological information.

12.1 Toxicity Acute

aquatic toxicity. Product information.

Acute aquatic toxicity. Information on ingredients.

Chemical name: Hydrocarbons, C9- C11, n-alkanes, isoalkanes, cycloalkanes, <2% aromatics

Toxicity, algae: *ErL50 (72h) > 1000 mg / l (Pseudokirchnerella subcapitata-OECD 201)*

Toxicity, daphnia and *other aquatic invertebrates: EbL50 (72h) > 1000*

Toxicity, fish: *EL 50 (48h) > 1000 mg / l (Daphnia magna - OECD 202)*

Toxicity, *microorganisms: LL 50 (96 h) > 1000 mg / l (Oncorhynchus mykiss - OECD 203)*

12.2. Persistence and degradability

Product information Readily biodegradable (80% after 28 days).

Biodegradation

Method: OECD 301 F

Test duration: 28 days

Specific effects: -

Value: 80%

Biodegradability: Readily biodegradable 12.3.

Bioaccumulative potential. Product information

The substance is of the UVCB type (a complex substance with variable composition). Standard tests in this case are inappropriate.

Log Pow Not applicable.

Information on ingredients

12.4 Mobility in soil Soil

The substance is a UVCB (complex substance with variable composition). Standard tests in this case are inappropriate.

12.5 Results of PBT and vPvB assessment. PBT and vPvB assessment. The substance is not of PBT and vPvB type.

12.6 Other adverse effects General

information No information available.

Section 13. Disposal considerations.

13.1. Waste neutralization methods.

Comply with the provisions of the Act of 27 April 2001 on waste (Journal of Laws No. 62, item 628) as amended.

Comply with the provisions of the Act of 11 May 2001 on packaging and packaging waste (Journal of Laws No. 63, item 638), as amended.

Regulation of the Minister of the Environment of 27 September 2001 on the waste catalog (Journal of Laws 2001 No. 112, item 1206)

Waste code:

15 01 10 * Packaging containing residues of hazardous substances or contaminated with them. Destroy according to applicable waste disposal regulations.

Do not dispose of into the environment with sewage or water.

Section 14. Transport information.

ADR / RID

UN / ID

No. UN

3295 Proper shipping name

Hydrocarbons, liquid, nos (Hydrocarbons, Liquid, NOS (petrol, deep hydrogen treatment)

Hazard class: 3

Packing group: 3 III

ADR / RID labels: 3

Environmental hazard: YES

Classification code: F1 Tunnel

restriction code: (D / E)

Kelmer number: 30

Description: 3295, HYDROCARBONS, LIQUID, NOS, 3, PG III, (D / E) EQE1

Limit quantity: LQ7 IMDG / IMO UN / ID No.

UN 3295

Proper shipping name

Hydrocarbons, liquid, nos (Hydrocarbons, Liquid, NOS (gasoline, deep hydrogen treatment)

Hazard class: 3

Packing group: III

EmS number FE, SD

Description: UN 3295,

HYDROCARBONS, LIQUID, NOS, 3, PG III, (41 ° C)

Special regulations: 223

EQ E1 Quantity limit: 5L

ICAO / IATA UN / ID

No .: UN 3295 Proper

shipping name

Hydrocarbons, liquid,

nos (Hydrocarbons, Liquid, NOS

(gasoline, deep hydrogen treatment)

Hazard class: 3

Packing group: III

ERG code: 3L

Description: UN 3295, HYDROCARBONS, LIQUID, NOS, 3, PG III, EQ E1

Limit quantity: 10L ADN UN / ID No .: UN 3295 Proper shipping name

Hydrocarbons, liqu id, nose (Hydrocarbons, Liquid, NOS (gasoline, deeply treated with hydrogen)

Hazard class: 3

Hazard labels: 3

Packing group: III

Classification code: F1

Description UN 3295,

HYDROCARBONS, LIQUID, NOS, 3, PG III, EQ E1 Limit quantity:

LQ7 Ventilation VE01

Section 15. Regulatory Information.

15.1. Safety, health and environmental regulations specific for the substance and mixture.

Act of February 25, 2011 on chemical substances and their mixtures (Journal of Laws No. 63 of 2011, item 322)

Regulation of the Minister of the Environment of 27 September 2001 on the waste catalog (Journal of Laws No. 112, item 1206).

Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18 December 2006 on REACH.

Regulation of the European Parliament and of the Council (EC) No. 1272/2008 of December 16, 2008. on classification, labeling and packaging of substances and mixtures, amending and repealing Directives 67/548 / EEC and 1999/45 / EC and amending Regulation (EC) No 1907/2006 (Official Journal of the European Union L335 / 1 of 31.12.2008)

European agreement on the international carriage of dangerous goods by road (ADR).

15.2. Chemical safety assessment. not applicable

Section 16. Other information.

The above information is based on the current state of knowledge and applies to the product as it is used. Data on this product are presented in order to comply with safety requirements and not to guarantee its specific properties. If the conditions of use of the product are not under the manufacturer's control, the responsibility for the safe use of the product rests with the user. The employer is obliged to inform all employees who have contact with the product about the hazards and personal protection measures specified in this safety data sheet. This safety data sheet was developed on the basis of the safety data sheet provided by the manufacturer and / or online databases as well as the applicable regulations on hazardous substances and chemical preparations.

Meaning of R phrases

R-10: Flammable.

from sections 2 and 3:

R- 65: Harmful; may cause lung damage if swallowed.

R- 66: Repeated exposure may - cause skin dryness or cracking.

R- 67: Vapors may cause drowsiness and dizziness.

Meaning of H phrases

H226 - Flammable liquid and vapor.

from sections 2 and 3:

H304 - May be fatal if swallowed and enters airways.

H336 - May cause drowsiness or dizziness.

Abbreviations, acronyms

bw / d = body weight / day

bw = body weight

Legend from section 8

+ Sensitizing * Labeling for effects on the skin

** Hazard Labeling C: Carcinogenic M: Mutagenic R: Toxic for reproduction

Toxicological Information Centers, Centers and Bureaus responsible for poison control:

1. Toxicological Information Office, Al. SolidarnoŃci 67, 03-401 WARSAW, phone: (22) 619 66 54

2. Toxicological Information Center,

ul. Mickiewicza 2, 60-834 POZNAŃ 3. , phone: (61) 847 69 46

Pomeranian Center of Toxicology, ul. Kartuska 4/6, 80-104 GDAŃSK 4. Toxicological telephone: (58) 682 04 04

Information Center, Collegium Medicum of the Jagiellonian University, Os. ZŃyota Jesieni,

31-826 KRAKÓW , telephone: (12) 411 99 99

Trainings: Persons

involved in the trade of a dangerous substance should be trained in the procedure, safety and hygiene.

Vehicle drivers should be trained and certified as required

ADR regulations.