

SAFETY DATA SHEET

(According to Regulation (EC) No. 1907/2006 and (EU) No.830/2015)

IMPREGNATION FORCE RAIN SPRAY 300ML



Release date : 15.11.2018

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Revision date :

SECTION 1 : IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY

1.1. Produkt identifier

Product name: Impregnation Force Rain Spray 300ML
CAS No: Not assigned/Mixture
EC No: Not assigned/Mixture

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

Identified use Impregnation agent for clothes and shoes .
Uses advise against None known.

1.3. Details of the supplier of the safety data sheet

Trade Name : TEGÜ VUKO spol. s r.o.
Head office: 763 45 Březůvky 250
Czech republic
Identification No : CZ45476535
Tel/fax : +420 577 994 081
e-mail : tegu.vuko@iex.cz

1.4. Emergency telephone number

Toxicological Information Centre : Na Bojišti 1, 128 08 Praha 2 ,ČR, tel.:224 919 293,224 915 042,224 914 575

SECTION 2 : HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

General hazards

This produkt is classified as as hazardous according to current regulations.

Physical hazards

Flammable Aerosols - Category 1 H222
H229

Health hazards

Aspiration Hazard - Category 1 H304
Skin Irritation - Category 2 H315
Specific Target Organ Toxicity (Single Exposure) H336
Category 3 , Narcotic Effects

Environmental hazards

Aquatic Chronic - Category 2 H411

2.2. Label elements



Signal Word :

Danger

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Hazard statements :

H222	Extremely flammable aerosol.
H229	Pressurised container: may burst if heated .
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.

Precautionary statements:

General precautionary statements:

P101	If medical advice is needed, have product container or label at hand.
P102:	Keep out of reach of children.
P103	Read label before use.

Prevention precautionary statements:

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211	Do not spray on an open flame or other ignition source.
P251	Do not pierce or burn, even after use.
P261	Avoid breathing dust/fumes/gas/mist/vapours/spray.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.

Response precautionary statements:

P301+310	IF SWALLOWED: Immediately call a POISON CENTER/doktor.
P303+361+353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304+340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+351+338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.

Storage precautionary statements:

P410+412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
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Disposal precautionary statements:

P501	Dispose of contents/container in accordance with local, regional, national and international regulations.
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Produkt contains :

Hydrocarbons C7 (EC 927-510-4) , Isopropyl acetate (EC 203-561-1), Butyl acetate (EC 204-658-1)

2.3.Other hazards

Not classified as PBT/vPvB by current EU criteria. Pressurised container: Do not expose to temperatures exceeding 50 °C/122 °F. Do not pierce or burn, even after use. Do not spray on an open flame or other ignition source. Keep away from heat. No smoking. Keep out of reach of children.

SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

This material is defined as a complex substance.

Hazardous substances required for disclosure :

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Name	Concentration	EC #	CAS #	REACH #	CLP Classification	
					Hazard category	Hazard st.
Hydrocarbons C7	50-60	927-510-4	-	01-2119475515-33	Flam. Liq.2 Skin.Irrit.2 STOT SE 3 Asp.Tox.1 Aquatic Chronic2	H225 H315 H336 H304 H411
Butyl acetate	10-20	204-658-1	123-86-4	01-2119485493-29	Flam. Liq.3 STOT SE 3	H226 H336
Isopropyl acetate	4	203-561-1	108-21-4	01-2119537214-46	Flam. Liq.2 Eye Irrit.2 STOT SE 3	H225 H319 H336
Butan	<10	203-448-7	106-97-8	01-211947691-32	Flam. Gas 1 Press Gas	H220
Propan	<10	200-827-9	74-98-6	01-211948694-21	Flam. Gas 1 Press Gas	H220

SECTION 4 : FIRST AID MEASURES

General instructions

When providing first aid, it is necessary to ensure safety first of all. Avoid chaotic behaviour. The affected person should be kept in both physical and physical rest, avoid his chilling. If medical examination is necessary, take the original packing with the label or a safety data sheet of the given preparation with you.

4.1. Description of first aid measures

Inhalation

Remove patient from exposure to fresh air and keep warm and at rest. Obtain medical attention if ill effects occur.

Skin contact

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention if symptoms occur. Wash clothing and shoes before reuse.

Eye contact

Immediately flush eyes with plenty of water, occasionally lift the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Obtain medical attention if ill effects occur.

Ingestion

Wash out mouth with water. Move exposed person to fresh air. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention.

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

Vapours may cause drowsiness and dizziness. Headache. Irritation of nose, throat and airway.

4.3. Indication of any immediate medical attention and special treatment needed : Not available

SECTION 5 : FIRE FIGHTING MEASURES

5.1. Extinguishing media

Appropriate Extinguishing Media: Use foam, dry chemical, or carbon dioxide (CO₂) to extinguish flames.

Inappropriate Extinguishing Media: Straight Streams of Water

5.2. Specific hazards

Extremely flammable aerosol. May form flammable vapour mixtures with air. Flameproof equipment necessary in area where this chemical is being used. Nearby equipment must be earthed. Vapour may travel a considerable distance to source of ignition and

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flash back. Avoid all ignition sources. All potential sources of ignition (open flames, pilot lights, furnaces, spark producing switches and electrical equipment etc) must be eliminated both in and near the work area. Do NOT smoke.

5.3. Fire fighting

Heating can cause expansion or decomposition leading to violent rupture of containers. If safe to do so, remove containers from path of fire. Keep containers cool with water spray. On burning or decomposing may emit toxic fumes. Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to vapour or products of combustion or decomposition.

If a leak or spill has not ignited, use water spray to disperse the vapors and to protect personnel attempting to stop a leak. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply. Firefighters should use standard protective equipment and in enclosed spaces, self-contained breathing apparatus. Use water spray to cool fire exposed surfaces and to protect personnel.

SECTION 6 : ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Do not touch or walk through spilt material. Avoid contact with skin and eyes. Avoid breathing vapour. Provide adequate ventilation. Put on appropriate personal protective equipment.

6.2. Environmental precautions

Do not discharge into drains, water courses or onto the ground. Spillages or uncontrolled discharges into watercourses must be immediately alerted to the Environmental Agency or other appropriate regulatory body.

6.3. Methods and material for containment and cleaning up

Small spills: Wear protective equipment to prevent skin and eye contamination. Avoid inhalation of vapours or dust. Wipe up with absorbent (clean rag or paper towels). Collect and seal in properly labelled containers or drums for disposal.

Large spills: If safe to do so, shut off all possible sources of ignition. Clear area of all unprotected personnel. Slippery when spilt. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contamination and the inhalation of vapours. Work up wind or increase ventilation. Contain - prevent run off into drains and waterways. Use absorbent (soil, sand or other inert material). Use a spark-free shovel. Collect and seal in properly labelled containers or drums for disposal.

SECTION 7 : HANDLING AND STORAGE

7.1. Precautions for safe handling

Avoid heat, sparks, open flames and other ignition sources. Observe good industrial hygiene practices. Follow all MSDS/label precautions even after container is emptied because they may retain product residues. Ground container and transfer equipment to eliminate static electric sparks. Avoid eye contact and skin contact. Avoid inhalation of vapour, mist or aerosols.

7.2. Conditions for safe storage, including any incompatibilities

Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from food and drink.

Keep container tightly closed and sealed until ready for use. Perform preventive static charge measurement (risk of dust explosion). Store away from incompatible materials described in Section 10. Store away from sources of heat and/or ignition.

Store locked up. Do not expose to temperatures exceeding 50 °C/122 °F. Keep container standing upright.

SECTION 8 : EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. Control parameters

DNEL value (Derived No Effect Level)

Hydrocarbons , C7	Workers		Consumers	
	Short - term Systemic effects	Long - term Systemic effects	Short - term Systemic effects	Long - term Systemic effects
Inhalation	-	2085 mg/m ³	-	477 mg/m ³
Dermal	-	300 mg/kg/24h	-	149 mg/kg/24h

8.2. Exposure controls

General protective measures

Avoid contact with skin and avoid inhalation of vapour. Do not eat, drink or smoke while working. Remove contaminated clothing immediately. Wear suitable protective clothing and gloves.

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Individual protective measures

Respiratory protection

Work outdoors or in well-ventilated areas. When using the product in the work process, ensure adequate ventilation. In case of short-term exposure or low concentration use respirator with organic vapor and dust filter (type A). In case of accident, fire, high concentration and long-term exposures use an insulating respirator.

Eye / Face protection

If contact is likely, safety glasses.

Skin and hand protection

Protective gloves and suitable protective clothing. Protective gloves should be changed regularly, especially after intensive contact with the product.

Environmental exposure controls

Avoid release to environment. Prevent entry into drains, waterways, sewers and soil.

SECTION 9 : . PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state	Liquid
Color	Colourless
Odor	Characteristic, smell of organic solvents
pH	Not data available.
Initial boiling point	Not data available.
Melting point/freezing point	Not data available.
Boiling Point /range	80-90°C
Flash point	-4°C
Vapor Density (Air = 1)	3.5 at 101 kPa
Vapour pressure	5.398 kPa (40.48 mm Hg) at 20 °C
Evaporation Rate (n-butyl acetate = 1)	4.18
Lower explosion limit	1,0% vol.
Upper explosion limit	6,7% vol.
Partition coefficient (n-octanol/water)	Not available.
Decomposition temperature	Not available.
Viscosity (Ford Ø4 mm)	9,4 s
Density	750 kg/m ³
VOC	0,987 kg/kg
TOC	0,700 kg/kg
Explosive properties	Not explosive.
Oxidizing properties	Non - oxidising.
Solubility	Insoluble in water

SECTION 10 : STABILITY AND REACTIVITY

- 10.1. Reactivity :** No dangerous reaction known if stored and used as prescribed.
- 10.2. Chemical stability:** Material is stable under normal conditions.
- 10.3. Possibility of hazardous reactions :** No dangerous reaction known under conditions of normal use.
- 10.4. Conditions to avoid :** Strong oxidizing agents. Heat, flames and sparks.
- 10.5. Incompatible materials:** This product may react with strong oxidizing agents.
- 10.6. Hazardous decomposition products :** Material does not decompose at ambient temperatures. In thermal decomposition are formed toxic and irritating gases including compounds containing fluorine.

SECTION 11 : TOXICOLOGICAL INFORMATION

11.1. Acute toxicity

	Ingestion	Inhalation	Skin
Hydrocarbons, C7	LD ₅₀ (rat) 5840 mg/kg	LC ₅₀ (rat) >23,3 mg/dm ³ /4h	LD ₅₀ (rabbit) >2920 mg/kg
Butyl acetate	LD ₅₀ (rat) 13100 mg/kg	LC ₅₀ (rat) >21 mg/dm ³ /4h	LD ₅₀ (rabbit) >17600 mg/kg
Isopropyl acetate	LD ₅₀ (rat) 3000 mg/kg	LC ₅₀ (rat) 50,6 mg/dm ³ /8h	-

Inhalation: This material has been classified as non-hazardous. Acute toxicity estimate (based on ingredients): >20 mg/L

Skin contact: This material has been classified as non-hazardous. Acute toxicity estimate (based on ingredients): >2 000 mg/Kg bw

Ingestion: This material has been classified as non-hazardous. Acute toxicity estimate (based on ingredients): >2 000 mg/Kg bw

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Skin corrosion/irritation : Moderately irritating to skin with prolonged exposure. Based on test data for structurally similar materials.
Serious eye damage/irritation : May cause mild, short-lasting discomfort to eyes. Based on test data for structurally similar materials.
Respiratory sensitisation : Not expected to be a respiratory sensitizer.
Skin sensitisation : Not expected to be a skin sensitizer. Based on test data for structurally similar materials.
Germ cell mutagenicity : Not expected to be a germ cell mutagen. Based on test data for structurally similar materials.
Carcinogenicity : Not expected to cause cancer.
Reproductive toxicity : Not expected to be a reproductive toxicant. Based on test data for structurally similar materials.
Specific target organ toxicity
- **single exposure**: May cause drowsiness or dizziness. Based on assessment of the components.
- **repeated exposure**: Not expected to cause organ damage from prolonged or repeated exposure.
Aspiration hazard: Ingestion and subsequent inhalation may cause damage the lungs.

11.2. Information on likely routes of exposure

Inhalation : Inhalation of vapor/aerosol concentrations above recommended exposure levels may cause headaches, dizziness, anesthesia and drowsiness.
Skin contact : Prolonged and/or repeated skin contact causes skin irritation.
Ingestion : May be harmful if swallowed, stomach pain, vomiting, possible damage liver, kidney, possibility of lung damage

SECTION 12 : ECOLOGICAL INFORMATION

12.1. Toxicity

The information is given for substances that would most likely affect the behavior of the material in the environment.

Hydrocarbons, C7 :	LL ₅₀ (Oncorhynchus mykiss)	13,4 mg/dm ³ /96h
	EC ₅₀ (Daphnia magna)	3 mg/dm ³ /48h
	EL ₅₀ (Pseudokirchneriella subcapitata)	10-30 mg/dm ³ /72h
Butyl acetate :	LC ₅₀ (Leuciscus idus melatonus)	62 mg/dm ³ /96h
	EC ₅₀ (Daphnia magna)	72,8 mg/dm ³ /24h
	IC ₅₀ (Scenedesmus subspicatus)	675 mg/dm ³ /72h

12.2. Persistence and degradability

Biodegradation: Expected to be readily biodegradable.
Hydrolysis: Transformation due to hydrolysis not expected to be significant.
Photolysis: Transformation due to photolysis not expected to be significant.
Atm. Oxidation: Expected to degrade rapidly in air

12.3. Bioaccumulative potential: Not available.
Partition coefficient n-octanol/water (log Kow) : Not available.
Bioconcentration factor (BCF): Not available.

12.4. Mobility in soil : Not available.
Adsorption : Not available.
Desorption : Not available.
Volatility : Not available.
Distribution : Not available.

12.5. Results of PBT and vPvB assessment :
Not a PBT or vPvB substance or mixture.

12.6. Other adverse effects : Not available.

SECTION 13 : DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Residual waste

Dispose of in accordance with local regulations. Empty containers may retain some product residues. This material and its container must be disposed of in a safe manner.

Contaminated packaging

Empty containers should be taken to an approved waste handling site for recycling or disposal.

EU waste code

Material : 16 05 04 Gases in pressure containers (including halons) containing dangerous substance
Container : 15 01 11 Metallic packaging containing a dangerous solid porous matrix (for example asbestos), including empty pressure containers

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Disposal methods/information

Collect and reclaim or dispose in sealed containers at licensed waste disposal site.

SECTION 14 : TRANSPORT INFORMATION

14.1. UN Number

ADR/RID,ADN,IMDG, ICAO : UN1950

14.2. UN proper shipping name

Transport type	UN proper shipping name
ADR/RID	1950 Aerosols , flammable , n.o.s.
ADN	Aerosols , flammable , n.o.s.
IMDG	Aerosols
ICAO/IATA	Aerosols , flammable , n.o.s.

14.3. Transport hazard classes

Transport type	Transport hazard class	Classification code	Label numbers
ADR/RID	2	5F	2.1
ADN	2	-	2.1
IMDG	2.1	-	2.1
ICAO/IATA	2.1	-	2.1

14.4. Packing group

ADR/RID,ADN,IMDG, ICAO : Not specified.

14.5. Environmental hazards

The product poses a hazard to the environment in according with the criteria of the UN Model Regulations.

14.6. Special precautions for user

Aerosols must be protected against unintentional emptying. UN 1950 AEROSOLS must be clearly marked. According article 1.1.3.6. transport up to 333 liters is not subject to ADR.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not specified.

14.8. Additional information

EMS : F-D , S-U
Stowage code : SW1 , SW22
Segregation code: SG69

SECTION 15 : REGULATORY INFORMATION

Safety, Health and Environmental Regulations/Legislation specific for the substance or mixture

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments.

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, Authorisation and Restriction of Chemicals (REACH)

SECTION 16 : OTHER INFORMATION

16.1. Note

This product should be stored, handled and used in accordance with good hygiene practices and in conformity with any legal regulations. This information contained herein is based on the present state of knowledge and is intended to describe our product from the point of view of safety requirements. It should be therefore not be construed as guaranteeing specific properties. This data sheet is not intended to be a replacement for a full risk assessment, these should always be carried out by competent persons.

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16.2. Training advice

Before using/handling the product one must read carefully present MSDS.

16.3. Full text of H-phrases referred to in sections 2 and 3

H220	Extremely flammable gas
H222	Extremely flammable aerosol
H225	Highly flammable liquid and vapor
H226	Flammable liquid and vapour
H229	Pressurized container: may burst if heated
H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H319	Causes serious eye irritation
H336	May cause drowsiness or dizziness
H411	Toxic to aquatic life with long lasting effects; Chronic Env Tox, Cat 2

16.4. Key or legend to abbreviations and acronyms used in the safety data sheet

RID	Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
ADR	Accord européen sur le transport des marchandises dangereuses par Route (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 Harmonised System of Classification and Labelling of Chemicals
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINC	European List of Notified Chemical Substances
CAS	Chemical Abstracts Service (division of the American Chemical Society)
VOC	Volatile Organic Compounds (USA, EU)
DNEL	Derived No-Effect Level (REACH)
PNEC	Predicted No-Effect Concentration (REACH)
LC50	Lethal concentration, 50 percent
LD50	Lethal dose, 50 percent
IC50	Inhibition concentration, 50 percent
PBT	Persistent, Bioaccumulative and Toxic
SVHC	Substances of Very High Concern
vPvB	very Persistent and very Bioaccumulative