KEMI®

according to 1907/2006/EC, Article 31

Printing date 14.01.2021 Version number 13 Revision: 14.01.2021

SECTION 1: Identification of the substance/mixture and of the company/undertaking

· 1.1 Product identifier

Stone Impregnation · Trade name:

10834, 10835, 10845, 10836, 10837, 10864 · Article number:

· UFI: AARV-86T4-5013-D52X

· 1.2 Relevant identified uses of the substance or mixture and

uses advised against

No further relevant information available.

· Application of the substance / the

mixture Protective impregnation

· 1.3 Details of the supplier of the safety data sheet

· Manufacturer/Supplier: AKEMI chemisch technische Spezialfabrik GmbH

Laboratory

Tel. +49(0)911-642960 Lechstrasse 28 Fax. +49(0)911-644456 D 90451 Nürnberg e-mail info@akemi.de

· Further information obtainable

from:

· 1.4 Emergency telephone

Product Safety Department AKEMI chemisch technische Spezialfabrik GmbH number:

Tel. +49(0)911-64296-59

Reachable during the following office hours: Monday – Thursday from 07:30 a.m. to 16:30 p.m.

Friday from 07:30 a.m. to 13:30 p.m.

+44 (171) 635 91 91

National Poison Inform, Centre Medical Toxicology Unit

Avalonley Road London SE14 5ER

SECTION 2: Hazards identification

· 2.1 Classification of the substance or mixture

· Classification according to Regulation (EC) No 1272/2008 Flam. Liq. 3 H226 Flammable liquid and vapour.

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

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

· 2.2 Label elements

· Labelling according to Regulation

(EC) No 1272/2008

Hazard pictograms

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







GHS02 GHS08 GHS09

· Signal word Danger

· Hazard-determining components of

2,2,4,6,6-pentamethylheptan labelling:

Hydrocarbons, C10-C12, Isoalkanes, <2% aromatics

· Hazard statements H226 Flammable liquid and vapour.

> H304 May be fatal if swallowed and enters airways. H411 Toxic to aquatic life with long lasting effects.

If medical advice is needed, have product container or label at hand. · Precautionary statements P101

> P102 Keep out of reach of children.

P103 Read carefully and follow all instructions.

P210 Keep away from heat, hot surfaces, sparks, open flames and other

ignition sources. No smoking.

Avoid release to the environment. P273

Wear protective gloves. P280

(Contd. on page 2)



according to 1907/2006/EC, Article 31

Printing date 14.01.2021 Version number 13 Revision: 14.01.2021

Trade name: Stone Impregnation

(Contd. of page 1)

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

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

P304+P312 IF INHALED: Call a POISON CENTER/doctor if you feel unwell.

P403+P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

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

 $\begin{array}{ll} \cdot \underline{\mathsf{PBT:}} & \mathsf{Not \ applicable.} \\ \cdot \underline{\mathsf{vPvB:}} & \mathsf{Not \ applicable.} \end{array}$

SECTION 3: Composition/information on ingredients

· 3.2 Chemical characterisation: Mixtures

· <u>Description:</u> Mixture of substances listed below with nonhazardous additions.

· Dangerous components:		
CAS: 13475-82-6	2,2,4,6,6-pentamethylheptan	25-50%
EINECS: 236-757-0	Flam. Liq. 3, H226	
Reg.nr.: 01-2119490725-29	Asp. Tox. 1, H304	
	Aquatic Chronic 4, H413	
EC number: 923-037-2	Hydrocarbons, C10-C12, Isoalkanes, <2% aromatics	25-50%
Reg.nr.: 01-2119471991-29-xxxx	Flam. Lig. 3, H226	1
	Asp. Tox. 1, H304	
	Aquatic Chronic 2, H411	
A 1 1''. 1 ' C ' '		

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

SECTION 4: First aid measures

· 4.1 Description of first aid measures

· General information: Take affected persons out into the fresh air.

Position and transport stably in side position.

Immediately remove any clothing soiled by the product.

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

• After skin contact: If skin irritation continues, consult a doctor.

Immediately wash with water and soap and rinse thoroughly.

· After eye contact: Rinse opened eye for several minutes under running water. Then consult a

doctor.

 $\cdot \, \underline{\text{After swallowing:}} \qquad \qquad \text{If symptoms persist consult doctor.}$

· <u>Information for doctor:</u> Symptoms in intoxication with (aromatic) hydrocarbons (dosis letalis about 30 g)

a) In acute intoxication: headache, dizziness, euphoria, gastro-intestinal

dysfunction, state of excitement, coma.

b) In chronic intoxication: myelotoxic damage, fatigue, dizziness, emaciation,

cardiac palpitation after physical exercise, leucopenia, anemia, leukosis.

Therapy in hydrocarbons intoxication: In case of inhalation provision of fresh air; in case of peroral intake administration of Carbo medicinalis; only after intubation conduct of gastrolavage in application of Carbo medicinalis; in case of cramps

administration of Diazepam 20 mg intravenously.

• 4.2 Most important symptoms and effects, both acute and

delayed Headache
Dizziness

Dizziness Dizziness Nausea

Breathing difficulty

Coughing

Profuse sweating

(Contd. on page 3)



according to 1907/2006/EC, Article 31

Printing date 14.01.2021 Version number 13 Revision: 14.01.2021

Trade name: Stone Impregnation

Danger of impaired breathing. Hazards

(Contd. of page 2)

· 4.3 Indication of any immediate medical attention and special

treatment needed

If swallowed, gastric irrigation with added, activated carbon. If swallowed or in case of vomiting, danger of entering the lungs.

SECTION 5: Firefighting measures

5.1 Extinguishing media

· Suitable extinguishing agents: CO2, powder or water spray. Fight larger fires with water spray or alcohol

resistant foam.

· For safety reasons unsuitable

extinguishing agents:

Water with full jet

5.2 Special hazards arising from

the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

In case of fire, the following can be released:

Carbon monoxide (CO)

Under certain fire conditions, traces of other toxic gases cannot be excluded.

5.3 Advice for firefighters

Wear self-contained respiratory protective device. Protective equipment:

Do not inhale explosion gases or combustion gases.

Wear fully protective suit.

Dispose of fire debris and contaminated fire fighting water in accordance with · Additional information

official regulations.

Collect contaminated fire fighting water separately. It must not enter the sewage

system.

SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and

emergency procedures

Ensure adequate ventilation Keep away from ignition sources.

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

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

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

· 6.3 Methods and material for

Absorb with liquid-binding material (sand, diatomite, acid binders, universal containment and cleaning up:

binders, sawdust).

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

· 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.

SECTION 7: Handling and storage

· 7.1 Precautions for safe

handling Keep receptacles tightly sealed.

Store in cool, dry place in tightly closed receptacles.

Keep away from heat and direct sunlight.

Ensure good interior ventilation, especially at floor level. (Fumes are heavier than

Use only in well ventilated areas.

(Contd. on page 4)



according to 1907/2006/EC, Article 31

Printing date 14.01.2021 Version number 13 Revision: 14.01.2021

Trade name: Stone Impregnation

(Contd. of page 3)

Ensure good ventilation/exhaustion at the workplace.

· Information about fire - and

explosion protection: Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

· 7.2 Conditions for safe storage, including any incompatibilities

· Storage:

Requirements to be met by

storerooms and receptacles: Store only in the original receptacle. Prevent any seepage into the ground.

· Information about storage in one

common storage facility:

Store away from oxidising agents.

Store away from foodstuffs.

· Further information about storage

conditions:

Store receptacle in a well ventilated area.

Store in a cool place.

Keep container tightly sealed.

· Storage class:

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

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

· Additional information about design

of technical facilities:

No further data; see item 7.

· 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. The lists valid during the making were used as basis.

Additional information:

· 8.2 Exposure controls

· Personal protective equipment: General protective and hygienic

measures:

· Protection of hands:

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

Apply solvent resistant skin cream before starting work.

Use skin protection cream for skin protection. 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.

· Respiratory protection: Filter AX

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.

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

After use of gloves apply skin-cleaning agents and skin cosmetics.

Skin protection agent recommendation for preventive skin shelter without use of

protective gloves:

STOKODERM (http://www.stoko.com)

Skin protection agent recommendation for preventive skin shelter in application

and combination of protective gloves:

STOKO EMULSION (http://www.stoko.com)

Skin protection recommendation for skin cleaning after product handling:

FRAPANTOL (http://www.stoko.com)

Skin protection agent recommendation for skin aftercare:

STOKO VITAN (http://www.stoko.com)

The protection gloves to be used have to comply with the specifications of the directive 89/686/EC and the directive derived decree EN374, respectively, e.g. the above listed protection glove type. The mentioned permeation times' data

were generated and verified with material samples of the recommended

(Contd. on page 5)



according to 1907/2006/EC, Article 31

Printing date 14.01.2021 Version number 13 Revision: 14.01.2021

Trade name: Stone Impregnation

(Contd. of page 4)

protection glove type in the scope of laboratory anylyses of the company KCL GmbH in compliance with EN374.

This recommendation refers exclusively to the material safety data sheet referenced product delivered by Akemi and the indicated field of application. In case of product dilution or in case of mixture with different substances or chemicals, and in condition of EN374 deviation the producer of CE-approved protection gloves must be contacted for detailed information (e.g., KCL GmbH, Germany, 36124 Eichenzell, internet: http://www.kcl.de).



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

· <u>Material of gloves</u> Fluorocarbon rubber (Viton)

Nitrile rubber, NBR

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

Value for the permeation: Level \leq 6, 480 min

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

 For the permanent contact gloves made of the following materials are suitable:

Fluorocarbon rubber (Viton) Vitoject (KCL, Art_No. 890)

Nitrile rubber, NBR

Camatril (KCL, Art No. 730, 731, 732, 733)

· As protection from splashes gloves made of the following materials are suitable:

Fluorocarbon rubber (Viton) Vitoject (KCL, Art No. 890)

Nitrile rubber, NBR

Camatril (KCL, 730, 731, 732, 733)

· Not suitable are gloves made of

the following materials:

Natural rubber, NR Rubber gloves Leather gloves Strong material gloves Neoprene gloves

· Eye protection:



Tightly sealed goggles

· Body protection: Protective work clothing

SECTION 9: Physical and chemical properties

- 9.1 Information on basic physical and chemical properties
- General Information
- Appearance:

Form: Fluid

(Contd. on page 6)



according to 1907/2006/EC, Article 31

Printing date 14.01.2021 Version number 13 Revision: 14.01.2021

Trade name: Stone Impregnation		
	(Contd. of page 5)	
<u>Colour:</u> · <u>Odour:</u>	Colourless Characteristic	
· pH-value:	Not applicable	
 Change in condition Melting point/freezing point: Initial boiling point and boiling range 	Undetermined. <u>:</u> 180 °C	
· Flash point:	44 °C	
· <u>Ig</u> nition temperature:	240 °C	
· Auto-ignition temperature:	Product is not selfigniting.	
· Explosive properties:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.	
· Explosion limits: Lower: Upper:	0.6 Vol % 7 Vol %	
· Vapour pressure at 20 °C:	1 hPa	
· Density at 20 °C:	0.76 g/cm³	
· <u>Solubility in / Miscibility with</u> <u>water:</u>	Not miscible or difficult to mix.	
· <u>Viscosity:</u> <u>Dynamic:</u> <u>Kinematic at 20 °C:</u>	Not determined. 10 s (DIN 53211/4)	
Solvent content: Organic solvents:	93.4 %	
Solids content:	4.8 %	

No further relevant information available.

SECTION 10: Stability and reactivity

• **10.1 Reactivity** No further relevant information available.

10.2 Chemical stability

9.2 Other information

Thermal decomposition /

conditions to be avoided: No decomposition if used and stored according to specifications.

10.3 Possibility of hazardous

reactions Reacts with strong oxidising agents. Forms flammable gases/fumes.

• 10.4 Conditions to avoid
• 10.5 Incompatible materials:

No further relevant information available.

No further relevant information available.

· 10.6 Hazardous decomposition

products: Carbon monoxide and carbon dioxide

SECTION 11: Toxicological information

· 11.1 Information on toxicological effects

· Acute toxicity Based on available data, the classification criteria are not met.

LD/LC50 values relevant for classification:

13475-82-6 2,2,4,6,6-pentamethylheptan
Oral LD50 >5,000 mg/kg (rat)

Inhalative LC50/8h >5 ppm (rat)

(Contd. on page 7)



(Contd. of page 6)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 14.01.2021 Version number 13 Revision: 14.01.2021

Trade name: Stone Impregnation

Hydrocarbons, C10-C12, Isoalkanes, <2% aromatics

Oral LD50 >5,000 mg/kg (rat)
Inhalative LC50/8h >5 mg/l (rat)

· Primary irritant effect:

Skin corrosion/irritation
 Serious eye damage/irritation
 Respiratory or skin sensitisation

Based on available data, the classification criteria are not met.
Based on available data, the classification criteria are not met.
Based on available data, the classification criteria are not met.

· Additional toxicological information:

· CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)

Germ cell mutagenicity
 Carcinogenicity
 Reproductive toxicity
 STOT-single exposure
 STOT-repeated exposure
 Based on available data, the classification criteria are not met.
 Based on available data, the classification criteria are not met.
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 Based on available data, the classification criteria are not met.
 Based on available data, the classification criteria are not met.

· Aspiration hazard May be fatal if swallowed and enters airways.

SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxicity:		
13475-82-6 2,2,4,6,6-pentamethylheptan		
IC50/72h	>1,000 mg/l (Pseudokirchneriella subcapitata)	
EC50/48h	>1,000 mg/l (daphnia magna)	
LC50/96h	>1,000 mg/l (Oncorhynchus mykiss)	
Hydrocarbons, C10-C12, Isoalkanes, <2% aromatics		
EL0/48h	1,000 mg/l (daphnia magna)	
EL0/72h	1,000 mg/l (Pseudokirchneriella subcapitata)	
LL0/96h	1,000 mg/l (Oncorhynchus mykiss)	
NOELR/72h	1,000 mg/l (Pseudokirchneriella subcapitata)	
NOELR/21d	<1 mg/l (daphnia magna)	

· 12.2 Persistence and

degradability
 12.3 Bioaccumulative potential
 12.4 Mobility in soil
 No further relevant information available.
 No further relevant information available.

· Additional ecological information:

• General notes: Do not allow product to reach ground water, water course or sewage system.

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

for water

· 12.5 Results of PBT and vPvB assessment

 $\begin{array}{ll} \cdot \underline{\mathsf{PBT:}} & \mathsf{Not \ applicable.} \\ \cdot \nu \overline{\mathsf{PvB:}} & \mathsf{Not \ applicable.} \end{array}$

• **12.6 Other adverse effects** No further relevant information available.

SECTION 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.

· Europeai	า waste	catalogu	ıe
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	<u> </u>
	MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND
	INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS
20 01 00	separately collected fractions (except 15 01)

(Contd. on page 8)



Safety data sheet according to 1907/2006/EC, Article 31

Printing date 14.01.2021 Version number 13 Revision: 14.01.2021

Trade name: Stone Impregnation

20 01 13* solvents

(Contd. of page 7)

· Uncleaned packaging: · Recommendation:

Empty contaminated packagings thoroughly. They may be recycled after

thorough and proper cleaning.

· Recommended cleansing agents: Alcohol

SECTION 14: Transport information

· <u>14.1 UN-Number</u> · <u>ADR, IMDG, IATA</u>	UN3295
· 14.2 UN proper shipping name	
· ADR	3295 HYDROCARBONS, LIQUID, N.O.S.,
	ENVIRONMENTALLY HAZARDOUS
· <u>IMDG</u>	HYDROCARBONS, LIQUID, N.O.S. (Hydrocarbons, C10-
	C12, Isoalkanes, <2% aromatics), MARINE POLLUTANT
· <u>IATA</u>	HYDROCARBONS, LIQUID, N.O.S.

· 14.3 Transport hazard class(es)

ADR





3 (F1) Flammable liquids. Class

Label

·IMDG





3 Flammable liquids. · Class · Label

· IATA



· Class 3 Flammable liquids. · Label

14.4 Packing group

· ADR, IMDG, IATA Ш

Product contains environmentally hazardous substances: · 14.5 Environmental hazards:

· Marine pollutant: Symbol (fish and tree) Symbol (fish and tree)

· Special marking (ADR):

· 14.6 Special precautions for user Warning: Flammable liquids.

· Hazard identification number (Kemler code): 30 · EMS Number: F-E,S-D

· Stowage Category

· 14.7 Transport in bulk according to Annex II of Marpol

and the IBC Code Not applicable.

(Contd. on page 9)



(Contd. of page 8)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 14.01.2021 Version number 13 Revision: 14.01.2021

Trade name: Stone Impregnation

· Transport/Additional information:

 Limited quantities (LQ) 5L

· Excepted quantities (EQ) Code: E1

> Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml

 Transport category 3 · Tunnel restriction code D/E

· IMDG

· Limited quantities (LQ) 5L

· Excepted quantities (EQ) Code: E1

> Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml

· UN "Model Regulation": UN 3295 HYDROCARBONS, LIQUID, N.O.S., 3, III, **ENVIRONMENTALLY HAZARDOUS**

SECTION 15: Regulatory information

· 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

· Directive 2012/18/EU

· Named dangerous substances -

None of the ingredients is listed. ANNEX I

· Seveso category E2 Hazardous to the Aquatic Environment

P5c FLAMMABLE LIQUIDS

· Qualifying quantity (tonnes) for the

application of lower-tier

requirements 200 t

· Qualifying quantity (tonnes) for the

application of upper-tier

500 t requirements

· REGULATION (EC) No 1907/2006

ANNEX XVII Conditions of restriction: 3

· DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic

equipment - Annex II

None of the ingredients is listed.

· National regulations:

· Information about limitation of use: Employment restrictions concerning juveniles must be observed.

Employment restrictions concerning pregnant and lactating women must be

observed.

· Waterhazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.

· VOC EU

710.5 q/l · 15.2 Chemical safety

assessment: A Chemical Safety Assessment has not been carried out.

SECTION 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 H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways. H411 Toxic to aquatic life with long lasting effects.

H413 May cause long lasting harmful effects to aquatic life.

· Recommended restriction of use refer to Technical Data Sheet (TDS)

(Contd. on page 10)



(Contd. of page 9)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 14.01.2021 Version number 13 Revision: 14.01.2021

Trade name: Stone Impregnation

· Department issuing SDS: Laboratory

· Contact: Elke Hake

Fon ++49 (0)911 64296-59 @mail E.Hake@akemi.de

· Abbreviations and acronyms: RID: Règlement international concernant le transport des marchandises dangereuses par chemin de

fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

ADR: Accord relatif au transport international 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

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Flam. Liq. 3: Flammable liquids – Category 3 Asp. Tox. 1: Aspiration hazard – Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard - Category 2

Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard - Category 4

* Data compared to the previous version altered.

Adaptation in accordance with REACH directive 1907/2006/EC

GB