

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Issue date: 5/26/2022 Version: 1.0

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

1.1. Product identifier

Product form : Mixture Name KSL 113

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

1.2.1. Relevant identified uses

Use of the substance/mixture : Carpet backing, Textile goods, Abrasive paper, Non-woven

fabrics

1.2.2. Uses advised against

Restrictions on use : Not available

1.3. Details of the supplier of the safety data sheet

Manufacturer

Kumho Petrochemical Co. Ltd

64, Sanggae-ro, Nam-gu, Ulsan, 44786, Republic of Korea

T+82-52-259-6051~7 - F+82-52-259-6053

Supplier

TsafeE GmbH

Landwehrpl 6, 66111, Saarbruecken, Germany

T +49 177 9166175 shkim@tsafeg.com

1.4. Emergency telephone number

Country	Organisation/Company	Address	Emergency number	Comment
Germany	Giftinformationszentrum-Nord der Länder Bremen, Hamburg, Niedersachsen und Schleswig- Holstein (GIZ-Nord) Universitätsmedizin Göttingen - Georg-August-Universität	Robert-Koch Straße 40 37075 Göttingen	+49 (0) 551 19240	(English only)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

Adverse physicochemical, human health and environmental effects

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

No labelling applicable

2.3. Other hazards

Mixture does not contain substance (s) classified as PBT or vPvB in concentrations above 0,1%.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

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3.2. Mixtures

Name	Product identifier		Classification according to Regulation (EC) No. 1272/2008 [CLP]
WATER	(CAS-No.) 7732-18-5 (EC-No.) 231-791-2	50	Not classified
Methylenebutanedioic acid polymer with 1,3- butadiene, ethenylbenzene, methyl 2-methyl-2- propenoate and 2-propenoic acid	(CAS-No.) 70857-14-6	50	Not classified

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes

while removing contaminated clothing and shoes. Wash contaminated clothing before

reuse.

First-aid measures after eye contact : Do not rub affected area. Immediately rinse with plenty of water (for at least 15 minutes).

Immediately call a POISON CENTER/doctor.

First-aid measures after ingestion : Rinse mouth with water, do not induce vomiting, call a doctor.

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

Symptoms/effects : Not available.

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

Treat symptomatically. Medical personnel should be made aware of substance(s) involved and take measures for self protection.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray. Use dry chemical, CO2, water spray or regular foam. Dry sand.

Unsuitable extinguishing media : Do not use water jet to extinguish.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Not combustible.

Explosion hazard : Containers could explode when heated.

Reactivity in case of fire : On exposure to high temperature, may decompose, releasing toxic gases. Inhalation of

material could be harmful.

Hazardous decomposition products in case of fire : Vapour could cause dizziness or suffocation.

5.3. Advice for firefighters

Firefighting instructions : Get the package away from the fire if this can be done without risk. Inhalation of material

could be harmful. No action shall be taken without appropriate training or involving any

personal risk.

Protection during firefighting : NOTIFY POLICE AND FIRE BRIGADE IMMEDIATELY. Withdraw immediately in case of

rising sound from venting devices or discolouration from tank. Avoid inhalation of the product. Cool down the containers exposed to heat with a water spray. Fire fighting

measures.

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Avoid contact with skin and eyes. Keep upwind. Remove ignition sources. Wear suitable protective clothing, gloves and eye or face protection.

6.1.1. For non-emergency personnel

Emergency procedures : Use personal protective equipment (PPE). Notify fire brigade and environmental authorities.

6.1.2. For emergency responders

Emergency procedures : Stay upwind/keep distance from source. Do not touch spilled material. Stop leak if safe to

do so. Remove all sources of ignition.

6.2. Environmental precautions

Prevent runoff from entering drains, sewers or waterways. Relevant water authorities should be notified of any large spillage to water course or drain.

6.3. Methods and material for containment and cleaning up

For containment : Clear spills immediately. Move the affected person away from the contaminated area.

Methods for cleaning up : In case of large spillages: Keep upwind. Take up mechanically (sweeping, shovelling) and collect in suitable container for disposal. Notify environmental authorities. Dispose of waste

or used sacks/containers according to local regulations. Keep in suitable, closed containers for disposal. Small spillages: Take up liquid spill into absorbent material, e.g.: sand. Wipe off

as much as possible (using a clean, soft, absorbent material).

Other information : Spill area may be slippery.

6.4. Reference to other sections

None under recommended storage and handling conditions (see section 7). For further information refer to section 8: "Exposure controls/personal protection". For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Read and follow the Safety Data Sheet (SDS) before use. Wear suitable protective clothing.

Do not inhale vapour.

Hygiene measures : Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Keep only in original container.

Storage conditions : Keep out of direct sunlight. Keep the container hermetically sealed. Avoid shock and friction.

Protect from heat and direct sunlight.

Storage temperature : $5-40 \, ^{\circ}\text{C}$

7.3. Specific end use(s)

For further information see section 1.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

No additional information available

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

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8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station. with local exhaust ventilation.

8.2.2. Personal protection equipment

Personal protective equipment symbol(s):









8.2.2.1. Eye and face protection

Eye protection:

Safety glasses. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure

8.2.2.2. Skin protection

Skin and body protection:

Wear suitable protective clothing

Hand protection:

Protective gloves

8.2.2.3. Respiratory protection

Respiratory protection:

A suitable particle filter mask is recommended, depending on the expected exposure levels. Full face piece respirator (organic vapours). High efficiency particulate air filter (HEPA filter). Use recommended respiratory protection

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment. Ecological information (Section 12).

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid Colour : milky white. Molecular mass : Not available Appearance : milky white. Odour : slight. Odour threshold : Not available Melting point : Not available Freezing point : Not available Boiling point : Not available

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Flammability : Not available **Explosive limits** : Not available : Not available Lower explosion limit Not available Upper explosion limit Flash point Not available Auto-ignition temperature Not available Decomposition temperature : Not available : ≈ 8 at 20°C Viscosity, kinematic : Not available

Viscosity, dynamic : < 400 mPa.s at 20 °C

Solubility : Not available Partition coefficient n-octanol/water (Log Kow) : Not available : Not available Vapour pressure Vapour pressure at 50 °C : Not available : Not available Density : Not available Relative density : Not available Relative vapour density at 20 °C Particle size : Not available Particle size distribution : Not available : Not available Particle shape : Not available Particle aspect ratio Particle aggregation state

: Not available Not available

Particle agglomeration state : Not available
Particle specific surface area : Not available
Particle dustiness : Not available

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Not available.

10.2. Chemical stability

No additional information available

10.3. Possibility of hazardous reactions

Catches fire spontaneously if exposed to air.

10.4. Conditions to avoid

Avoid high temperatures.

10.5. Incompatible materials

Oxidising agents.

10.6. Hazardous decomposition products

Carbon dioxide (CO2). smokes.

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SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral) : Not available
Acute toxicity (dermal) : Not available
Acute toxicity (inhalation) : Not available

Skin corrosion/irritation : Not available
Serious eye damage/irritation : Not available
Respiratory or skin sensitisation : Not available
Germ cell mutagenicity : Not available
Carcinogenicity : Not available

Reproductive toxicity : Not available

STOT-single exposure : Not available

STOT-repeated exposure : Not available

Aspiration hazard : Not available

11.2. Information on other hazards

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse

effects in the environment.

Hazardous to the aquatic environment, short-term

(acute)

Hazardous to the aquatic environment, long-term

(chronic)

Not rapidly degradable

: Not available

: Not available

12.2. Persistence and degradability

KSL 113

Persistence and degradability Not available.

12.3. Bioaccumulative potential

KSL 113

Bioaccumulative potential Not available.

12.4. Mobility in soil

KSL 113

Mobility in soil Not available

12.5. Results of PBT and vPvB assessment

KSL 113

Mixture does not contain substance (s) classified as PBT or vPvB in concentrations above 0,1%.

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12.6. Endocrine disrupting properties

Adverse effects on the environment caused by endocrine disrupting properties

: Not available

12.7. Other adverse effects

Other adverse effects : Not available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods

: Recycling is preferred to disposal or incineration. Oil-Water Separation. Dispose of in accordance with relevant local regulations. Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
14.1. UN number or ID n	umber			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN proper shippin	g name			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard	class(es)			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental haz	ards			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
No supplementary information	n available			

14.6. Special precautions for user

Overland transport

Not applicable

Transport by sea

Not applicable

Air transport

Not applicable

Inland waterway transport

Not applicable

Rail transport

Not applicable

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

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SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

15.1.2. National regulations

Germany

Employment restrictions

Water hazard class (WGK) Hazardous Incident Ordinance (12. BImSchV) Storage class (LGK, TRGS 510) Joint storage table

Joint storage not permitted for

Joint storage with restrictions permitted for Joint storage permitted for

: Observe restrictions according Act on the Protection of Working Mothers (MuSchG)
Observe restrictions according Act on the Protection of Young People in Employment (JArbSchG)

: WGK 3, Highly hazardous to water (Classification according to AwSV, Annex 1)

: Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

: LGK 12 - Non-combustible liquids

LGK 1	LGK 2A	LGK 2B	LGK 3	LGK 4.1A
LGK 4.1B	LGK 4.2	LGK 4.3	LGK 5.1A	LGK 5.1B
LGK 5.1C	LGK 5.2	LGK 6.1A	LGK 6.1B	LGK 6.1C
LGK 6.1D	LGK 6.2	LGK 7	LGK 8A	LGK 8B
LGK 10	LGK 11	LGK 12	LGK 13	LGK 10-13

: LGK 1, LGK 6.2, LGK 7

: LGK 4.1A, LGK 4.3, LGK 5.1C

: LGK 2A, LGK 2B, LGK 3, LGK 4.1B, LGK 4.2, LGK 5.1A, LGK 5.1B, LGK 5.2, LGK 6.1A, LGK 6.1B, LGK 6.1C, LGK 6.1D, LGK 8A, LGK 8B, LGK 10, LGK 11, LGK 12, LGK 13, LGK 10-13

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Abbreviations and acronyms:	
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DNEL	Derived-No Effect Level
PNEC	Predicted No-Effect Concentration
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BLV	Biological limit value
BOD	Biochemical oxygen demand (BOD)
COD	Chemical oxygen demand (COD)
DMEL	Derived Minimal Effect level
EC-No.	European Community number

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EC50 Median effective concentration EN European Standard IARC International Agency for Research on Cancer IATA International Air Transport Association IMDG International Maritime Dangerous Goods LC50 Median lethal concentration LD50 Median lethal dose LOAEL Lowest Observed Adverse Effect Level NOAEC No-Observed Adverse Effect Concentration NOAEL No-Observed Effect Concentration NOCE No-Observed Effect Concentration OECD Organisation for Economic Co-operation and Development
IARC International Agency for Research on Cancer IATA International Air Transport Association IMDG International Maritime Dangerous Goods LC50 Median lethal concentration LD50 Median lethal dose LOAEL Lowest Observed Adverse Effect Level NOAEC No-Observed Adverse Effect Concentration NOAEL No-Observed Effect Concentration NOEC No-Observed Effect Concentration
IATA International Air Transport Association IMDG International Maritime Dangerous Goods LC50 Median lethal concentration LD50 Median lethal dose LOAEL Lowest Observed Adverse Effect Level NOAEC No-Observed Adverse Effect Concentration NOAEL No-Observed Adverse Effect Level NOCC No-Observed Effect Concentration
IMDG International Maritime Dangerous Goods LC50 Median lethal concentration LD50 Median lethal dose LOAEL Lowest Observed Adverse Effect Level NOAEC No-Observed Adverse Effect Concentration NOAEL No-Observed Adverse Effect Level NOCC No-Observed Effect Concentration
LC50 Median lethal concentration LD50 Median lethal dose LOAEL Lowest Observed Adverse Effect Level NOAEC No-Observed Adverse Effect Concentration NOAEL No-Observed Adverse Effect Level NOEC No-Observed Effect Concentration
LD50 Median lethal dose LOAEL Lowest Observed Adverse Effect Level NOAEC No-Observed Adverse Effect Concentration NOAEL No-Observed Adverse Effect Level NOEC No-Observed Effect Concentration
LOAEL Lowest Observed Adverse Effect Level NOAEC No-Observed Adverse Effect Concentration NOAEL No-Observed Adverse Effect Level NOEC No-Observed Effect Concentration
NOAEC No-Observed Adverse Effect Concentration NOAEL No-Observed Adverse Effect Level NOEC No-Observed Effect Concentration
NOAEL No-Observed Adverse Effect Level NOEC No-Observed Effect Concentration
NOEC No-Observed Effect Concentration
OECD Organisation for Economic Co-operation and Development
OEL Occupational Exposure Limit
PBT Persistent Bioaccumulative Toxic
RID Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS Safety Data Sheet
STP Sewage treatment plant
ThOD Theoretical oxygen demand (ThOD)
TLM Median Tolerance Limit
VOC Volatile Organic Compounds
CAS-No. Chemical Abstract Service number
N.O.S. Not Otherwise Specified
vPvB Very Persistent and Very Bioaccumulative
ED Endocrine disrupting properties

Data sources : This safety data sheet was compiled with data and information from the following sources : RTECS,

ECOSAR, HSDB, SIDS SIAP, ChemWATCH, CESAR, Chemical DB.

The classification complies with : ATP 12

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.