

SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006 (REACH)
with its amendment Regulation (EU) 2020/878
LIONTAN GSQ1

Date of issue : 26.04.2022
SDS NO: 116.03

Revision Date : 03.02.2026

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

1.1. Product identifier

Product Name : LIONTAN GSQ1

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

Usage Area : Retannage filling material

Uses Not Recommended : All uses not specified in this section or section 7.3

1.3. Details of the supplier of the safety data sheet

Importer/Distributor: KDK KİMYA DERİ GIDA İNŞ.SAN.TİC.LTD.ŞTİ
Deri Organize Sanayi Bölgesi Dilek Sokak No:6/2 10-10 Özel Parsel Tuzla,İstanbul
/Türkiye
Tel: +90 216 394 10 85

2) HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

The product is not classified as hazardous pursuant to the provisions set forth in EC Regulation 1272/2008 (CLP). However, since the product contains hazardous substances in concentrations such as to be declared in section no. 3, it requires a safety data sheet with appropriate information, compliant to (EU) Regulation 2020/878.

Hazard classification and indication:

Physicochemical	Not classified
Health	Not classified
Environmental	Not classified

2.2. Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms: Not applicable

Signal words: Not applicable

Hazard statements: Not applicable

EUH210 Safety data sheet available on request.

Precautionary statements: Not applicable

2.3. Other hazards

Information not available

3) COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Not applicable

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3.2. Mixtures

Name	Product Identifier	%	1272/2008 (CLP)
STYRENE	CAS No: 100-42-5 EC No: 202-851-5 INDEX: 601-026-00-0	≤ 0,1	H226 - Flam. Liq. 3 H361d - Repr. 2 H332 - Acute Tox. 4 H351 - Carc. 2 H372 - STOT RE 1 H319 - Eye Irrit. 2 H315 - Skin Irrit. 2 Classification note according to Annex VI to the CLP Regulation: D

Note D: Certain substances which are susceptible to spontaneous polymerisation or decomposition are generally placed on the market in a stabilised form. It is in this form that they are listed in Part 3.

However, such substances are sometimes placed on the market in a non-stabilised form. In this case, the supplier must state on the label the name of the substance followed by the words 'non-stabilised'.

The substance described above is not on the KDDIK Annex-17 Restricted Substances List.

The substance described above is not on the SVHC (Substance of Very High Concern) List.

The substance described above is not on the ZDHC MRSL List.

Full text of the H statements: see Section 16

4) FIRST AID MEASURES**4.1. Description of first aid measures**

Not specifically necessary. Observance of good industrial hygiene is recommended.

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

Specific information on symptoms and effects caused by the product are unknown.

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

Information not available

5) FIREFIGHTING MEASURES**5.1. Extinguishing media**

Suitable Extinguishing Equipment: The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.

Unsuitable Extinguishing Equipment: None in particular.

5.2. Special hazards arising from the substance or mixture

Hazards Caused by Exposure in The Event of Fire: Do not breathe combustion products.

5.3. Advice for firefighters

General Information

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

Special Protective Equipment for Fire-Fighters

Normal firefighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

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6) ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Use breathing equipment if fumes or powders are released into the air. These indications apply for both processing staff and those involved in emergency procedures.

6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

6.3. Methods and material for containment and cleaning up

Confine using earth or inert material. Collect as much material as possible and eliminate the rest using jets of water. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

7) HANDLING AND STORAGE

7.1. Precautions for safe handling

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use.

7.2. Conditions for safe storage, including any incompatibilities

Keep the product in clearly labelled containers. Keep containers away from any incompatible materials, see section 10 for details. Conditions for safe storage:
Store locked up. Keep containers tightly closed, out of direct sunlight, in a dry and well-ventilated place. Storage temperature should be between 32 °F and 104 °F.

7.3. Specific end use(s)

Information not available

8) EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Regulatory References:

GBR	United Kingdom	EH40/2005 Workplace exposure limits (Fourth Edition 2020)
	TLV-ACGIH	ACGIH 2021

STYRENE (CAS No: 100-42-5)						
Threshold Limit Value						
Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
WEL	GBR	430	100	1080	250	
TLV-ACGIH		10		20		

Legend:

(C) = CEILING; INHAL= Inhalable Fraction; RESP= Respirable Fraction; THORA= Thoracic Fraction.

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8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Hand Protection

Protect hands with category III work gloves (see standard EN 374).

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

Skin Protection

Wear category I professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344).

Wash body with soap and water after removing protective clothing.

Eye Protection

Wear airtight protective goggles (see standard EN 166).

Respiratory Protection

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type B filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

Environmental Exposure Controls

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

9) PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance	Liquid
Colour	light yellow
Odour	Odorless
Odour threshold	Not available
pH	9±1
Melting point / freezing point	Not available
Initial boiling point	Not available
Boiling range	Not available
Flash point	Not available

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Evaporation rate	Not available
Flammability	Not available
Relative density	Not available
Vapour pressure	Not available
Vapour density	Not available
Density	Not available
Solubility	Not available
Partition coefficient: n-octanol/water	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Viscosity	Not available
Explosive properties	Not available
Oxidising properties	Not available

9.2. Other information

Information not available

10) STABILITY AND REACTIVITY

10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

STYRENE (CAS No: 100-42-5): Polymerises at temperatures above 65°C/149°F. Fire hazard. Possibility of explosion. Added with an inhibitor that requires a small amount of dissolved oxygen at temperatures < 25°C/77°F.

10.2. Chemical stability

The product is stable in normal conditions of use and storage.

10.3. Possibility of hazardous reactions

No hazardous reactions are foreseeable in normal conditions of use and storage.

STYRENE (CAS No: 100-42-5): May react dangerously with: peroxides, strong acids. May polymerise on contact with: aluminium trichloride, azobisisobutyronitrile, dibenzoyl peroxide, sodium. Risk of explosion on contact with: butyllithium, chlorosulphuric acid, di-tert-butyl peroxide, oxidising substances, oxygen.

10.4. Conditions to avoid

None in particular. However the usual precautions used for chemical products should be respected.

STYRENE (CAS No: 100-42-5): Avoid contact with: oxidising substances, copper, strong acids.

10.5. Incompatible materials

STYRENE (CAS No: 100-42-5): Incompatible materials: plastic materials.

10.6. Hazardous decomposition products

Information not available

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11) TOXICOLOGICAL INFORMATION

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification. It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

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

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

STYRENE (CAS No: 100-42-5): WORKERS: inhalation; contact with the skin.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

STYRENE (CAS No: 100-42-5): The acute toxicity by inhalation at 1000 ppm affects the central nervous system with headache and dizziness, lack of coordination; irritation of the eye and respiratory tract mucous membranes occurs at 500 ppm. Chronic exposure causes depression of the central and peripheral nervous system with loss of memory, headache and drowsiness starting at 20 ppm; digestive disorders with nausea and loss of appetite; irritation of the respiratory tract with chronic bronchitis; dermatosis. Repeated exposure, at low doses of inhaled substance, causes irreversible changes to hearing and may cause changes in colour vision. No certain data is available on the reversibility of the visual impairment. Repeated skin exposure causes irritation. The substance degrades the skin, which can cause dryness and cracking.

Interactive effects

STYRENE (CAS No: 100-42-5): The metabolism of the substance is inhibited by ethanol. When styrene is photo-oxidised with ozone and nitrogen dioxide, as in the formation of smog, products highly irritating for the human eye may ensue.

Acute toxicity of the mixture:

Not classified

STYRENE (CAS No: 100-42-5)	
LD50 (Oral):	5000 mg/kg Rat
LC50 (Inhalation vapours):	11,8 mg/l/4h Rat

Skin Corrosion / Irritation

Does not meet the classification criteria for this hazard class

Serious Eye Damage / Irritation

Does not meet the classification criteria for this hazard class

Respiratory or Skin Sensitisation

Does not meet the classification criteria for this hazard class

Respiratory Sensitization

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Skin Sensitization

Information not available

Germ Cell Mutagenicity

Does not meet the classification criteria for this hazard class

Carcinogenicity

Does not meet the classification criteria for this hazard class

STYRENE (CAS No: 100-42-5): Classified in Group 2B (possible human carcinogen) by the International Agency for Research on Cancer (IARC) - (IARC, 2002).
Classified as "probable carcinogen" by the US National Toxicology Program (NTP) - (US DHHS, 2014).

Reproductive Toxicity

Does not meet the classification criteria for this hazard class

Effects On or Via Lactation

Information not available

STOT - Single Exposure

Does not meet the classification criteria for this hazard class

Target Organs

Information not available

Route of Exposure

Information not available

STOT - Repeated Exposure

Does not meet the classification criteria for this hazard class

Target Organs

Information not available

Route of Exposure

Information not available

Aspiration Hazard

Does not meet the classification criteria for this hazard class

11.2. Information on other hazards

Information not available

12) ECOLOGICAL INFORMATION

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation.

12.1. Toxicity

Information not available

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12.2. Persistence and degradability

STYRENE (CAS No: 100-42-5)	
Solubility in water	320 mg/l
Rapidly degradable	

12.3. Bioaccumulative potential

STYRENE (CAS No: 100-42-5)	
Partition coefficient: n-octanol/water	2,96
BCF	74

12.4. Mobility in soil

STYRENE (CAS No: 100-42-5)	
Partition coefficient: soil/water	2,55

12.5. Results of PBT and vPvB assessment

Information not available

12.6. Other adverse effects

Information not available

13) DISPOSAL CONSIDERATIONS

Reuse, when possible. Neat product residues should be considered special non-hazardous waste.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

Contaminated Packaging

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

14) TRANSPORT INFORMATION

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

	Land transport ADR/RID	Marine transport IMDG	Air transport IATA-DGR
14.1 UN-No	The product is not classified as a dangerous good according to the regulations, regarding its transportation.		
14.2 Description of the goods	Not applicable	Not applicable	Not applicable
14.3 Transport hazard class(es)	Not applicable	Not applicable	Not applicable
14.4 Packaging group	Not applicable	Not applicable	Not applicable
14.5 Environmental hazards	Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No

14.6 Special precautions for user

No data available

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14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

15) REGULATORY INFORMATION**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

This Safety Data Sheet is prepared according to 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)

Seveso Category - Directive 2012/18/EC

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

Substances subject to authorisation (Annex XIV REACH)

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012

Healthcare control

Information not available

15.2. Chemical safety assessment

A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.

16) OTHER INFORMATION

Abbreviations and acronyms:

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
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC50	Median effective concentration
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 Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail



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SDS	Safety Data Sheet
STP	Sewage treatment plant
TLM	Median Tolerance Limit
vPvB	Very Persistent and Very Bioaccumulative

Data sources: (EC) Regulation 1272/2008 (CLP). ECHA (European Chemicals Agency). Supplier's safety documents.

Full text of H-statements	
H226 - Flam. Liq. 3	Flammable liquid and vapour.
H361d - Repr. 2	Suspected of damaging the unborn child.
H332 - Acute Tox. 4	Harmful if inhaled.
H351 - Carc. 2	Suspected of causing cancer
H372 - STOT RE 1	Causes damage to organs through prolonged or repeated exposure.
H319 - Eye Irrit. 2	Causes serious eye irritation.
H315 - Skin Irrit. 2	Causes skin irritation.
EUH210	Safety data sheet available on request.

Revision Informations	
Revision Number:	01
Revision Date :	11.10.2023
Explanation :	It has been updated and revised upon the request of the company.
Revision Number:	02
Revision Date :	03.02.2026
Explanation :	This safety data sheet has been revised in accordance with amendment Regulation (EU) 2020/878.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, Information and belief at the date of its publication.

The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification.

The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. It is the responsibility of persons in receipt of this Product Safety Data Sheet to ensure that the information contained herein is properly read and understood by all people who may use, handle, dispose or in any way come in contact with the product. If the recipient subsequently produces a formulation containing the product, it is the recipient's sole responsibility to ensure the transfer of all relevant information from the Product Safety Data Sheet to their own Product Safety Data Sheet.

All information and instructions provided in this Safety Data Sheet (SDS) are based on the current state of scientific and technical knowledge at the date indicated on the present SDS. As stated above, this Safety Data Sheet has been prepared in compliance with applicable European law. If you purchase this material outside Europe, where compliance laws may differ, you should receive from your local supplier a SDS applicable to the country in which the product is sold and intended to be used. Please note that the appearance and content of the SDS may vary –even for the same product between different countries, reflecting the different compliance requirements.