

Material Safety Data Sheet

"Regulation on Information Forms on Hazardous Substances and Mixtures
(Official Gazette on 13.12.2014 and Official Gazette on 29204) and (EU) 2020/878

LOCKING 377

Version:
1,0

Print Date : 28.12.2023

1. IDENTIFICATION OF THE PRODUCT AND OF THE COMPANY/UNDERTAKING

1.1 Product Identifier

Trade Name LOCKING 377

1.2 Relevant Identified Uses Of The Product And Uses Advised Against

Relevant Identified Uses Anaerobic sealant

Uses Advised Against No data available

1.3 Details Of The Supplier Of The Safety Data Sheet

Supplier (Manufacturer) Akfa Endüstri San. Ve Tic. A.Ş.

Address Cihangir mah. Güvercin sok. no: 2/22 Aktim 3 İş
Merkezi Avcılar İstanbul

Phone 0539 688 13 43

1.4 Details Of The Manufacturer Of The Safety Data Sheet

Supplier (Manufacturer) Akfa Endüstri San. Ve Tic. A.Ş.

Address Cihangir mah. Güvercin sok. no: 2/22 Aktim 3 İş
Merkezi Avcılar İstanbul

Phone 0539 688 13 43

1.5 Emergency Contact

0539 688 13 43

2. HAZARDS IDENTIFICATION

Physical hazards Not classified.

Health hazards Skin sensitisation : Category 1 (H317)

Eye irritation : Category 2 (H319)

Specific target organ toxicity Single exposure: Category 3 (H335)

Environmental hazards

Label elements

Signal word Warning

Hazard statement

Physical hazards : Not classified.

Health hazards : H317: May cause an allergic skin reaction.

H319: Causes serious eye irritation.

H335: May cause respiratory irritation

Environmental hazards : Not classified

Precautionary statement

Prevention : P280: Wear protective gloves/protective clothing/eye protection/face protection.

Response : P333 + P313: If skin irritation or rash occurs: Get medical advice/ attention.

P337 + P313: If eye irritation persists: Get medical advice/attention.

Storage : P403 + P233: Store in a well-ventilated place. Keep container tightly closed.

Disposal : P501: Dispose of contents/container to an appropriate disposal facility



Other hazards which do not result in classification
Supplemental information
 Not applicable.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Description Of The Substance

The compound product

3.2 Hazardous ingredients

Chemical Name	CAS ³ NO. EC NO	CONTENT %	CLASSIFICATION
			CLP
Methacrylic acid, monoester with propane-1,2-diol	27813-02-1 248-666-3	60-80	Skin Sens. 1- H317 Eye Dam. 2- H319
Cumene	98-82-8 202-704-5	0.1-0.5	Flam Liq 3- H226 Asp. Tox. 1- H304 STOT SE. 3- H335 Aquatic Chr. 2- H411
Cumene hydroperoxide	80-15-9 201-254-7	0.5-2	Org. Perox. EF- H242 Acute Tox. 4- H302 Acute Tox. 4- H312 Acute Tox. 3- H331 Skin Corr. 1B- H314 C \geq 10% Skin Corr 2- H315 3% \leq C<10% Eye Dam. 1- H318 %3 \leq C<%10 Eye irrit. 2-H319 %1 \leq C<%3 STOT SE 3- H335 C<%10 STOT RE 2- H373 Asp. Tox. 1- H304 Aquatic Chr. 2- H411

3.2.1 Additional information

M-Factor: Not Specified

Specific Concentration Limits: Not Specified

3.2.2 Additional warnings:

All the explanations for damage related to the subject are given in Chapter 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

4.1.1 General information

In all cases of doubt, or when symptoms persist, seek medical attention.

Never give anything by mouth to an unconscious person

4.1.2 Following inhalation

In case of accident by inhalation: remove casualty to fresh air and keep at rest. If not breathing, give artificial respiration. If breathing is difficult, trained personnel should give oxygen. Get medical attention immediately

4.1.3 Following skin contact

Do not use solvents or thinners. Take off all contaminated clothing immediately. Wash skin thoroughly with soap and water or use recognized skin cleanser. If skin irritation persists, call a physician.

4.1.4 Following eye contact

Remove contact lenses. Irrigate copiously with clean, fresh water for at least 15 minutes, holding the eyelids apart. Seek medical advice.

4.1.5 Following ingestion

If swallowed, seek medical advice immediately and show this container or label. Do NOT induce vomiting. Keep at rest.

4.1.6 Self-protection of the first aider

Use personal protective equipment as required. Avoid contact with skin, eyes or clothing.

4.1.7 Notes for the doctor

Treat symptomatically.

4.2 Significant Signs and Implications of Acute and Postdose

Please see practical experience in Section 11.

4.3 First Signs for Medical Intervention and Special Treatment Needs

No information

5. FIRE FIGHTING MEASURES

5.1 Fire extinguishers:

Suitable Extinguishing: Water. Foam.

Incompatible: Do not use high power water jet.

Other Explanations: No information

5.2 Special Losses Resulting from Article or Mixture:

Losses Related to following Combustion materials: Closed containers exposed to heat from fire may build pressure and explode. Exposure to extreme heat can give rise to thermal decomposition

Losses Related to Type Explosion: No fire or explosion hazard.

Losses related to reactivity: No information

Other Explanations: No information

5.3 Recommendations for Fire Fighting Squads:

Fire Fighting Instructions: Water may not effectively extinguish fire; however, it should be used to keep fire-exposed containers and surfaces cool and prevent explosive rupture. When firefighting conditions are severe and total thermal decomposition of the product is possible, wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, tunic and trousers (leggings), bands (around arms, waist and legs), face mask, and protective covering for exposed areas of the head.

5.4 Other informations

No information

6. ACCIDENT AGRICULTURAL PREVENTION

6.1 Personal Precautions, Protective Equipment and Emergency Procedures:

Exposure controls and personal protective measures as described in section 8.

Protective Equipment

Put on appropriate personal protective equipment
If outside keep bystanders upwind and away from danger point. Mark out the contaminated area with signs and prevent access to unauthorized personnel. Turn

Emergency

leaking containers leak-side up to

Procedures

prevent the escape of liquid

Other Explanations

No information

6.1.1 For Non Emergency Personnel

No data

6.2 Environmental Precautions:

Do not let product enter drains. Notify the respective authorities in accordance with local law in the case of contamination of rivers, lakes or waste water systems. Please avoid any emission of volatile organic compounds as possible

6.3 Methods and Materials for Conservation and Cleaning:

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations.

The contaminated area should be cleaned up immediately with a suitable decontaminant. One possible (flammable) decontaminant comprises (by volume): water (45 parts), ethanol or isopropyl alcohol (50parts), concentrated (density: 0,880) ammonia solution (5 parts). After usage of suitable decontaminant, transfer the material to a closable, labelled salvage container for disposal by an appropriate method.

6.4 Other Information:

Comply with local regulations.

6.5 References to Other Departments:

Information on safe handling is obtained from Chapter 7.

Information on personal protective equipment is given in section 8.

Information on liquidation is obtained from Chapter 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid inhalation of thermal decomposition products. For industrial or professional use only. Store work clothes separately from other clothing, food and tobacco products. Do not handle until all safety precautions have been read and understood. Wash contaminated clothing before reuse. Avoid breathing vapours. Contaminated work clothing should not be allowed out of the workplace.

7.1.1 General Handling Recommendations:

7.1.1.1 Warnings for Safe Handling

No information

7.1.1.2 Warnings Regarding Disputes of Substance or Mixtures

No information

7.1.1.3 Environment Related Alerts

No information

7.1.1.4 Additional Notices

No information

7.1.2 Recommendations for General Occupational Hygiene:

Eating, drinking and smoking should be prohibited during fertilization. Workers should wash their hands before eating, drinking or smoking. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for Safe Storage Including Conflicts:

Technical Measures Do not return residual materials to containers as contamination may reduce the shelf life of the bulk product. Protect against UV and sunlight. Keep away from heat sources and humid media.

Storage Conditions Store in original containers at 8-21°C (46.4-69.8°F)

Common Storage Terms Store separately from oxidizing agents, strongly alkaline and strongly acidic materials, amines, alcohols and water. Do not store together with explosives, gases, oxidizing solids, products which form flammable gases in contact with water, oxidizing products, infectious products and radioactive products

Incompatible Materials No information

7.2.1 Advice on general occupational hygiene No information

7.3 Specific End uses: Fixing and sealing of metallic pipes and fittings.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Community / national occupational exposure limit values

Cumene hydroperoxide (CAS No: 80-15-9)				
	Limit value – Eight hours		Limit value – Short term	
	ppm	mg/m ³	ppm	mg/m ³
Latvia	-	1	-	-

Cumene (CAS No: 98-82-8)				
	Limit value – Eight hours		Limit value – Short term	
	ppm	mg/m ³	ppm	mg/m ³
Australia	25	125	75	375
Austria	20	100	50	250
Belgium	20	100	50	250
Canada - Ontario	50			
Canada - Québec	50	246		
Denmark	20	100	40	200
European Union	20	100	50	250
Finland	20	100	50	250
France	20	100	50	250
Germany (AGS)	10	50	40	200
Germany (DFG)	10	50	40	200
Hungary		100		250
Ireland	20	100	50	250
Italy	20	100	50	250
Latvia	20	100	50	250
New Zealand	25	125	75	375
Poland		100		250
Singapore	50	246		
South Korea	50	245		
Spain	20	100	50	250
Sweden	25	120	35	170
Switzerland	20	100	80	400
The Netherlands		100		250
Turkey	20	100	50	250
USA - NIOSH	50	245		
USA - OSHA	50	245		
United Kingdom	25	125	75	375

- OEL values that are given in this subsection are taken from GESTIS International Limit Values database.
- If a component is disclosed in Section 3 but does not appear in the table given above, an occupational exposure limit value is not available for the corresponding component.

Information on monitoring procedures

DN(M)ELs

CAS No.	Chemical name	End use	Exposure routes	Frequency of exposure	Type	Value
	Methacrylic	Workers	Inhalation	Chronic	Not specified.	14.7 mg/m ³
		Workers	Dermal	Chronic	Not specified.	4.2 mg/kg

27813-02-1	acid, monoester with propane- 1,2-diol	Consumers	Dermal	Chronic	Not specified.	2.5 mg/kg
		Consumers	Inhalation	Chronic	Not specified.	8.8 mg/m ³
		Consumers	Oral	Chronic	Not specified.	2.5 mg/kg
80-15-9	Cumene hydroperoxide	Workers	All routes	-	-	WARNING: Some DNEL/PNEC values exist in the REACH disseminated dossier(s), but we are not confident in these data
		Consumers	All routes	-	-	WARNING: Some DNEL/PNEC values exist in the REACH disseminated dossier(s), but we are not confident in these data
98-82-8	Cumene	Consumers	Inhalation	Chronic	Systemic	16.6 mg/m ³ Repeated dose toxicity
		Consumers	Oral	Chronic	Systemic	5 mg/kg bw/day Repeated dose toxicity
		Workers	Dermal	Chronic	Systemic	No hazard identified
		Consumers	Inhalation	Acute	Local	Hazard unknown (no further information necessary)
		Consumers	Inhalation	Acute	Systemic	Hazard unknown (no further information necessary)

PNECs

CAS No.	Chemical name	Environmental protection target	Value	Extrapolation method
27813-02-1	Methacrylic acid, monoester with propane-1,2-diol	Freshwater	0.904 mg/L	Assessment factor: 50
		Marine water	0.904 mg/L	Assessment factor: 50
		Intermittent releases	0.972 mg/L	Assessment factor: 100
		STP	10 mg/L	Assessment factor: 10
		Sediment (freshwater)	6.28 mg/kg sediment dw	Partition coefficient
		Sediment (marine water)	6.28 mg/kg sediment dw	Partition coefficient
		Soil	0.727 mg/kg soil dw	Partition coefficient
80-15-9	Cumene hydroperoxide	Freshwater	0.003 mg/L	Assessment factor: 1000
		Marine water	0 mg/L	Assessment factor: 10000
		Intermittent releases	0.031 mg/L	Assessment factor: 100
		STP	0.35 mg/L	Assessment factor: 1
		Sediment (freshwater)	0.023 mg/kg sediment dw	Partition coefficient
		Sediment (marine water)	0.002 mg/kg sediment dw	Partition coefficient

		Soil	0.003 mg/kg soil dw	Partition coefficient
98-82-8	Cumene	Freshwater	35 µg/L	Assessment factor: 10
		Marine water	3.5 µg/L	Assessment factor: 100
		Intermittent releases	12 µg/L	Assessment factor: 100
		STP	200 mg/L	Assessment factor: 10
		Sediment (freshwater)	3.22 mg/kg çökelti dw	Partition coefficient

8.2. Exposure controls

Respiratory 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.

Eyes Safety glasses with side shields or chemical safety goggles should be worn if there is a risk of splashing of material.

Skin Select and use gloves and/or protective clothing approved to relevant local standards to prevent skin contact based on the results of an exposure assessment. Selection should be based on use factors such as exposure levels, concentration of the substance or mixture, frequency and duration, physical challenges such as temperature extremes, and other use conditions. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible gloves/protective clothing. Gloves made from the following material(s) are recommended:

- Butyl rubber at least 0.5 mm thickness
- Fluoroelastomer at least 0.4 mm thickness

Engineering Controls General ventilation recommended

Other Work Practices Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics. Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Important health, safety and environmental information

9.2 Appearance

Form/Physical state/color	Liquid, green
Odor	Acrylate, characteristic

9.3 Safety relevant basic data

Solid Content % (by volume)	Not available
VOC%	Not available
pH (20°C)	Not applicable
Initial Boiling point/range (°C)	>149
Melting point (°C)	Not available
Evaporation rate	Negligible
Flammability (solid, gas)	Not applicable
Flash Point (°C) closed cup	>100
Lower Explosion Limit (as volume and in air)	Not applicable
Upper Explosion Limit (as volume and in air)	Not applicable
Ignition temperature (°C)	Not flammable (It was not classified as an explosive.)
Vapour pressure (mbar) @ 20°C	<666.6 Pa
Relative density	1.022
Solubility in water	Not miscible
Viscosity @ 20°C (mPas)	47000 to 50000 cPs
Density(g/cm ³)	1.022 g/cm ³

Note : The above properties are determined according to the methods prescribed in Annex-I Part A of the Annex-I Regulation on Test Methods to be Applied in Determination of the Physico-Chemical, Toxicological and Ecotoxicological Properties of the Materials and Mixtures, or other comparable method.

10. STABILITY AND REACTIVITY

10.1 Reactivity

Keep away from oxidising agents and strongly acid or alkaline materials. Mixture can rapidly react with these materials and produce CO₂. Evolution of CO₂ in closed containers causes overpressure and produces a risk of bursting.

10.2 Chemical stability

Stable

10.3 Hazardous Decomposition

Hazardous polymerization reaction may occur in large quantities only

10.4 Conditions to Avoid: (The temperature at which hazardous reactions may occur is under the conditions to avoid such as pressure, light, shock, etc.):

Stable under recommended storage and handling conditions

10.5 Substances to be avoided: (Conditions relevant to water, air, acids, bases, oxidizing agents or any other special substances which may cause a hazardous reaction):

Refer to reactivity in this section

10.6 Hazardous decomposition products

Hazardous Decomposition Materials:

Carbon dioxide

Carbon monoxide

Nitrogen oxides

Sulfur oxides

11. TOXICOLOGICAL INFORMATION

Toxic effects

No Data

Acute toxicity

CAS No.	Chemical name	Species	Type	Exposure duration	Value	Method(s) and/or reference(s) and/or note(s)
27813-02-1	Methacrylic acid, monoester with propane-1,2-diol	Rat	LD50 Oral	-	>2000 mg/kg bw	OECD Guideline 401 (Acute Oral Toxicity)
		Rabbit	LD50 Dermal	24 h	>5000 mg/kg bw	-
		Rat	LD50 Intraperitoneal	-	500-1000 mg/kg bw	-
80-15-9	Cumene hydroperoxide	Rat	LD50 Oral	-	382 mg/kg bw	-
		Rat	LC50 Inhalation	4 h	220 ppm	-
		Rat	LD50 Dermal	-	1.20-1.52 mg/kg bw	-
		Rat	LD50 Oral	-	2 910 mg/kg bw	-

98-82-8	Cumene	Rat	LC0 Inhalation	1 h	22.1 mg/L air	-
		Rabbit	LD50 Dermal	24 h	> 3 160 mg/kg bw	-

Skin corrosion/irritation

CAS No.	Chemical name	Species	Exposure duration	Result	Method(s) and/or reference(s) and/or note(s)
27813-02-1	Methacrylic acid, monoester with propane-1,2-diol	Rabbit	24 h	Not irritating	-
80-15-9	Cumene hydroperoxide	Rabbit	72 h	Strong skin reactions	-
98-82-8	Cumene	Rabbit	72 h	Not irritating	OECD Guideline 404

Serious eye damage/irritation

CAS No.	Chemical name	Species	Exposure duration	Result	Method(s) and/or reference(s) and/or note(s)
27813-02-1	Methacrylic acid, monoester with propane-1,2-diol	Rabbit	72 h	Not irritating	-
80-15-9	Cumene hydroperoxide	Rabbit	24 h	Severe irritation	-
98-82-8	Cumene	Rabbit	72 h	Not irritating	OECD Guideline 404

respiratory or skin sensitization

CAS No.	Chemical name	Species	Exposure duration	Result	Method(s) and/or reference(s) and/or note(s)
27813-02-1	Methacrylic acid, monoester with propane-1,2-diol	Human	-	Not sensitising	-
		Guinea pig	-	Not sensitising	-
98-82-8	Cumene	Guinea pig	48 h	Not	OECD Guideline 406

					sensitising	
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Germ cell mutagenicity

CAS No.	Chemical name	Species	Type	Route	Result	Method(s) and/or reference(s) and/or note(s)
27813-02-1	Methacrylic acid, monoester with propane-1,2-diol	Chinese hamster Ovary	Gene mutation	In vitro	Not mutagenic	OECD Guideline 476
		Escherichia coli WP2 uvrA	Gene mutation	In vitro	Not mutagenic	OECD Guideline 472
		Mouse	Oral	In vivo	Not mutagenic	OECD Guideline 474
80-15-9		MX100	Gene mutation	In vitro	Mutagenic	-
	Cumene hydroperoxide	PQ300, PQ37	Gene mutation	In vitro	Mutagenic	-
		Mouse	Dermal	In vivo	Not mutagenic	-
		Mouse	Intraperitoneal	In vivo	Not mutagenic	-
98-82-8	Cumene	Chinese hamster Ovary	Gene mutation	In vitro	Not mutagenic	OECD Guideline 476
		Mouse	Chromosom aberration	In vivo	Not mutagenic	OECD Guideline 474

Carcinogenicity

CAS No.	Chemical name	Species	Type	Exposure duration	Result	Method(s) and/or reference(s) and/or note(s)
27813-02-1	Methacrylic acid, monoester with propane-1,2-diol	Mouse	Inhalation	-	No evidence of carcinogenicity.	OECD Guideline 451
		Rat	Inhalation	-	No evidence of carcinogenicity.	OECD Guideline 451
		Rat	Oral	-	No evidence of carcinogenicity.	-
80-15-9	Cumene hydroperoxide	Mouse	Subcutaneous	-	Inconclusive result	-
98-82-8	Cumene	Mouse	Inhalation	-	Inconclusive result	OECD Guideline 451

Reproductive toxicity

CAS No.	Chemical name	Species	Type	Exposure duration	Result	Method(s) and/or reference(s) and/or note(s)
27813-02-1	Methacrylic acid, monoester with propane-1,2-diol	Rat	Oral	49 days	NOAEL 1630 mg/kg bw/day	-
98-82-8	Cumene	Rat	Inhalation	90 days	NOAEL >= 1 200 ppm	OECD Guideline 413

Specific target organ toxicity - single exposure

STOT-single exposure No information available.

Specific target organ toxicity - repeated exposure

STOT- repeated exposure No information available.

Aspiration damage

Aspiration hazard No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity Acute Aquatic Toxicity

No data

12.1. Toxicity

Acute (short-term) toxicity

CAS No.	Chemical name	Species	Exposure duration	Test endpoint	Result	Method(s) and/or reference(s) and/or note(s)
27813-02-1	Methacrylic acid, monoester with propane-1,2-diol	Scophthalmus maximus (fish)	96 h	LC50	833 mg/L	-
		Copepoda (invertebrates)	48 h	EC50	210 mg/L	-
80-15-9	Cumene hydroperoxide	Oncorhynchus mykiss (fish)	96 h	NOEC	1.5 mg/L	OECD Guideline 203
				LC50	3.9 mg/L	
				LC100	6.0 mg/L	
		Daphnia magna (invertebrates)	24 h	EC0	2.2 mg/L	-
				EC50	7.0 mg/L	
				EC100	25 mg/L	
98-82-8	Cumene	Cyprinodon variegatus (fish)	96 h	NOEC	< 2.9 mg/L	-
			96 h	LC50	4.7 mg/L	-
			72 h	LC50	4.8 mg/L	-
			48 h	LC50	5.7 mg/L	-
			24 h	LC50	8.1 mg/L	-
		Daphnia magna (invertebrates)	48 h	EC50	2.14 mg/L	-
			48 h	EC10	1.3 mg/L	-
			48 h	NOEC	1.6 mg/L	-
			24 h	EC50	2.45 mg/L	-
			24 h	EC10	1.4 mg/L	-
24 h	NOEC	1.6 mg/L	-			

Chronic (long-term) toxicity

CAS No.	Chemical name	Species	Exposure duration	Test endpoint	Result	Method(s) and/or reference(s) and/or note(s)
27813-02-1	Methacrylic acid, monoester with propane-1,2-diol	Daphnia magna (invertebrates)	21 days	NOEC	45.2 mg/L	OECD Guideline 211
98-82-8	Cumene	P.promelas (fish)	28 day	NOEC	0.38 mg/L	-
		Daphnia magna (invertebrates)	21 day	NOEC	0.35 mg/L	OECD Guideline 211

12.2. Persistence and degradability

Persistence and degradability

CAS No.	Chemical name	Test type	Study type	Duration	Degradation %	Method(s) and/or reference(s) and/or note(s)
27813-02-1	Methacrylic acid, monoester	Ready biodegradability	BOD	28 days	81%	OECD Guideline 301 C
			TOC		93%	
	with propane-1,2-diol		GC		100%	
80-15-9	Cumene hydroperoxide	Ready biodegradability	CO2 evolution	5 days	64%	OECD Guideline 301 B
				28 days	99%	
98-82-8	Cumene	Ready biodegradability	O2 consumption	20 day	0%	-

12.3. Bioaccumulation potential

CAS No.	Chemical name	Log Kow	BCF	Result	Method(s) and/or reference(s) and/or note(s)
27813-02-1	Methacrylic acid, monoester with propane-1,2-diol	0.97	3.2	No bioaccumulation potential.	-
80-15-9	Cumene hydroperoxide	2.16	9	No bioaccumulation potential.	-
98-82-8	Cumene	3.5	94.69	No bioaccumulation potential.	-

12.4. Mobility in soil

Mobility No information

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment

The product does not contain any substances classified as PBT or vPvB.

12.6. Other adverse effects

Other adverse effects The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and is classified for eco-toxicological properties accordingly. See sections 2 and 3 for details.

13. DISPOSAL CONSIDERATIONS

13.1 Product / Packaging disposal

Any method in accordance with local, state and federal laws. Best method is to recycle or reuse for intended purpose. If discarded, this material and its containers should be treated as hazardous waste based on the characteristics of corrosivity as defined under federal RCRA regulations (40 CFR 261). Consult local authorities for disposal into public sewer.

13.2 Contaminated packaging

The generation of waste should be avoided or minimized as much as possible. must be downloaded. Disposal of the product, melts and anything, with environmental protection regulations and waste disposal laws and should always comply with the instructions of the local authority of any region.

Do not use used empty packages for other purposes. Destroy packaging after use.

13.3 Recommended Cleansing Material:

Rinse container with clear water. Offer container for recycling, or dispose of in trash.

13.4 Additional Information:

The generation of waste should be avoided or minimized as much as possible. Incineration or burial should only be considered where recycling is not feasible.

There is no dangerous transport phrase

14. TRANSPORT INFORMATION

	ADR ⁸ /RID ⁸	ADNR ⁹	IMDG ¹⁰	ICAO ¹¹ /IATA ¹²
14.1. UN/ID No.	-	-	-	-
14.2. PROPER SHIPPING NAME				
SYMBOL	-	-	-	-
14.3. CLASS				
14.4 PACKAGING GROUP				
LABELLING NO	-	-	-	-
CLASSIFICATION CODE				
HAZARD NO (HIN NO)			-	
PASSENGER & CARGO AIRCRAFT MAXIMUM NET QUANTITY				
14.5 EmS	-	-	-	-
14.6 MARINE Pollutant	-	-	-	-

Road Transport Notes:

The product does not have international regulations on the transport of dangerous goods (IMDG, IATA, ADR / RID). A warning sign for transport is also not required. Emergency Action Code 2Z, Tunnel Restriction Code (E)

15. REGULATORY INFORMATION

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

Product; Classified and labeled according to the procedures and principles stipulated in the "Regulation on the Classification, Labeling and Packaging of the Products and Mixtures" and "in the EU legislation"

Examine the following regulations for other national measures that may be relevant to legislation or interest for the implementation of the provisions of this safety data sheet.

Regulation on Safety Data Sheets for Hazardous Substances and Mixtures

Regulation on the Classification, Labeling and Packaging of Matter and Mixtures

Regulation on the Restriction and Prohibition of Hazardous Substances and Mixtures

Law on Occupational Health and Safety

Regulation on Health and Safety Precautions in Carcinogenic and Mutagenic Activities

Regulation on Health and Safety Precautions in Working with Chemical Substances

Regulation on the Use of Personal Protective Equipment in Workplaces Hand Carrying Works Regulation

Waste Management Regulation

Regulation on the Prevention and Reduction of Major Industrial Accidents

16. OTHER INFORMATION

16.1 Other information

This document has been prepared and documented in accordance with the provisions of Regulation (EC) No 1907/2006 (REACH) and ISO 11014-1, "Regulation on Safety Data

16.2 Reason of re-issue First issue

None

16.3 Classification For Mixtures And Used Evaluation Method According To ;

December 13, 2014 and 29204 were regulated according to the regulation.

16.4 Explanations on the Methods of Classification of Hazardous Dissatisfaction (Which of the methods of assessing the information set out in Article 11 of the Regulation on Classification, Labeling and Packaging of Materials and Mixtures are used for classification purposes)

16.5 Other Topics:

- Contact our sales department for suggestions on safe use of the product.
 - Contact our sales department for recommended limitations on the use of the product and for non-legal recommendations.
 - It is advisable to obtain appropriate training for workers to read and use safety data sheets and labeling information in a clear way, in order to protect the human health and environment against product exposure and general safety culture.
 - Key information sources used in the arrangement of this safety data sheet;
Safety Information Form / Forms prepared by the manufacturer for the product
 - "Regulation on Safety Data Sheets for Hazardous Substances and Mixtures" and annexes,
 - "Regulation on the Classification, Labeling and Packing of Materials and Mixtures" and its annexes
 - "Regulation on Health and Safety Precautions for Carcinogenic and Mutagenic Activities" and its annexes,
 - Other relevant local regulations
 - UN ADR, IMDG, IATA lists, ECHA and related EU directives,
- Other helpful resources.

16.6 Additional Information:

- The information provided in this Safety Data Sheet was prepared based on our best available experience, knowledge and belief on the date of its preparation.
 - The information provided is designed as a guide for safe handling, handling, handling, storage, disposal and disposal.
 - This information applies only to the specified substance / mixture, unless otherwise specified in the documentation, and may not apply if this substance is used in combination with other substances or if any other procedure is used.
 - Please observe the information on the Safety Data Sheet for use.
- This information is based on our current knowledge.
This Safety Data Sheet defines the product according to the recognized safety regulations, but does not guarantee the safety of the product.
It does not constitute a guarantee and the product specifications do not establish a legally valid contractual relationship.

¹ RG: Official newspaper

² EINECS: Kimyasal maddelerin Avrupa Envanteri

³ CAS: Kimyasal maddelerin servis kayıt numarası

⁴ PBT: Persistent Bioaccumulative Toxic

⁵ VPVB: Very Persistent, Very Bioaccumulative

⁶ BCF: Bioconcentration Factor

⁷ ADR: Accord Dangereux Routier (European regulations concerning the international transport of dangerous goods by road)

⁸ RID: Regulations Concerning the International Transport of Dangerous Goods by Rail (European law)

⁹ ADN: Regulation for the Carriage of Dangerous Substances on the Rhine (EU)

¹⁰ IMDG: International Maritime Dangerous Goods (United Nations)

¹¹ ICAO: International Civil Aviation Organization