

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Date of issue: 12/6/2023 Version: 1.0

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

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1.1. Product identifier	
Product form	: Mixture
Product name	: ESB 44
1.2. Relevant identified uses of the substan	ce or mixture and uses advised against

1.2.1. Relevant identified uses

Main use category Industrial/Professional use spec Use of the substance/mixture

 Industrial use : Industrial

: 444 93 53

: Welding and soldering products, flux products

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Oerlikon Kaynak Elektrodları ve Sanayi A.Ş. Organize Sanayi Bölgesi, 2. Kısım No: 23 P.O. Box 45030 Manisa - Türkiye T +90 236 226 26 00 info@magmaweld.com - www.magmaweld.com

1.4. Emergency telephone number Er

mergency	number			
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Country	Organisation/Company	Address	Emergency number	Comment
Turkey	Ulusal Zehir Merkezi (UZEM) Refik Saydam Hıfzıssıhha Merkezi Başkanlığı	Cemal Gürsel Cd. No: 18 Sıhhiye Çankaya 06590 Ankara	114	Information is provided to public and medical personnel on poisoning incidents via 114.
United Kingdom	National Poisons Information Service (Newcastle Centre) Regional Drugs and Therapeutics Centre, Wolfson Unit	Claremont Place Newcastle-upon-Tyne NE1 4LP Newcastle	0344 892 0111	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Serious eye damage/eye irritation Not classified

Specific target organ toxicity (repeated exposure) Not classified

Full text of H statements : see section 16

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

Other hazards not contributing to the classification

: Welding: May cause fire. Avoid contact with skin and eyes. In welding process: heat, radiation, electric shock and welding fumes may cause hazards. Persons with a pacemaker should not go near welding or cutting operations. None under normal conditions. Avoid dust formation. Do not breathe dust.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

3.2. Mixtures			
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Iron	(CAS-No.) 7439-89-6 (EC-No.) 231-096-4	65 - 85	Not classified
Calcium carbonate	(CAS-No.) 1317-65-3 (EC-No.) 215-279-6	5 - 15	Not classified
Quartz	(CAS-No.) 14808-60-7 (EC-No.) 238-878-4	5 - 15	STOT RE 1, H372
FERROSILICON with 30% or more but less than 90% silicon	(CAS-No.) 8049-17-0 (EC-No.) 617-088-7	<= 5	Not classified
Manganese	(CAS-No.) 7439-96-5 (EC-No.) 231-105-1	<= 5	Not classified
Potassium Silicate	(CAS-No.) 1312-76-1 (EC-No.) 215-199-1	<= 5	Skin Irrit. 2, H315 Eye Dam. 1, H318
Rutile	(CAS-No.) 1317-80-2 (EC-No.) 215-282-2	<= 5	Not classified
Calcium Flouride	(CAS-No.) 7789-75-5 (EC-No.) 232-188-7	<= 5	Not classified
Feldspar	(CAS-No.) 68476-25-5 (EC-No.) 270-666-7	<= 1	Eye Irrit. 2, H319 STOT SE 3, H335
Ilmenite	(CAS-No.) 12168-52-4 (EC-No.) 235-334-8	<= 1	Not classified
Cellulose	(CAS-No.) 9004-34-6 (EC-No.) 232-674-9	<= 1	Not classified

Full text of H-statements: see section 16

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	: Wash skin with plenty of water.		
First-aid measures after eye contact	: Rinse eyes with water as a precaution.		
First-aid measures after ingestion	: Call a poison center or a doctor if you feel unwell.		
4.2. Most important symptoms and effects, No additional information available	both acute and delayed		
4.3. Indication of any immediate medical att Treat symptomatically.	ention and special treatment needed		
SECTION 5: Firefighting measures			
5.1. Extinguishing media Suitable extinguishing media	: Water spray. Dry powder. Foam.		
5.2. Special hazards arising from the substance or mixture			
Hazardous decomposition products in case of fire	: Toxic fumes may be released.		
5.3. Advice for firefighters Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.		
SECTION 6: Accidental release measur	es		
6.1. Personal precautions, protective equip	ment and emergency procedures		
6.1.1. For non-emergency personnel Emergency procedures	: Ventilate spillage area.		
6.1.2. For emergency responders			
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".		
6.2. Environmental precautions			

Avoid release to the environment.

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

6.3. Methods and material for containment and cleaning up Methods for cleaning up

Other information

6.4. Reference to other sections

: Mechanically recover the product.

: Dispose of materials or solid residues at an authorized site.

SECTION 7: Handling and storage		
7.1. Precautions for safe handling		
Precautions for safe handling	: Ensure good ventilation of the work station. Wear personal protective equipment.	
Hygiene measures	: Do not eat, drink or smoke when using this product. Always wash hands after handling the product.	
7.2. Conditions for safe storage, including any incompatibilities		
Storage conditions	: Store in a well-ventilated place. Keep cool.	

Storage conditions

7.3. Specific end use(s) No additional information available

For further information refer to section 13.

SECTION 8: Exposure controls/personal protection 8.1. Control parameters

Quartz (14808-60-7)

Qualtz (14000-00-7)		
EU Local name S		Silica crystaline (Quartz)
EU	Notes	(Year of adoption 2003)
EU	Regulatory reference	SCOEL Recommendations
Germany	TRGS 910 Acceptable concentration notes	

Manganese (7439-96-5)			
EU	Local name	Manganese	
EU		0.2 mg/m³ (inhalable fraction) 0.05 mg/m³ (respirable fraction)	
EU	Notes	(Year of adoption 2011)	
EU	Regulatory reference	SCOEL Recommendations	
Germany	TRGS 910 Acceptable concentration notes		

Rutile (1317-80-2) ΕU Local name Rutile Titanium dioxide ΕU (Ongoing) Notes EU SCOEL Recommendations Regulatory reference TRGS 910 Acceptable concentration notes Germany

8.2. Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

Hand protection:
Protective gloves
Eye protection:
Safety glasses
Skin and body protection:
Wear suitable protective clothing
Respiratory protection:
In case of insufficient ventilation, wear suitable respiratory equipment
Environmental exposure controls:

Environmental exposure controls:

Avoid release to the environment.

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

SECTION 9: Physical and chemical properties			
9.1. Information on basic physical and chemical properties			
Physical state	: Solid		
Appearance	: Solid.		
Colour	: Grey. Light grey.		
Odour	: No data available		
Odour threshold	: No data available		
рН	: No data available		
Relative evaporation rate (butylacetate=1)	: No data available		
Melting point	: ≈ 1500 °C		
Freezing point	: Not applicable		
Boiling point	: No data available		
Flash point	: Not applicable		
Auto-ignition temperature	: Not applicable		
Decomposition temperature	: No data available		
Flammability (solid, gas)	: Non flammable.		
Vapour pressure	: No data available		
Relative vapour density at 20 °C	: 0		
Relative density	: No data available		
Density	:≈7		
Solubility	: insoluble in water.		
Log Pow	: No data available		
Viscosity, kinematic	: No data available		
Viscosity, dynamic	: No data available		
Explosive properties	: Not explosive.		
Oxidising properties	: Non oxidizing.		
Explosive limits	: Not applicable		
9.2 Other information			

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Product is not explosive.
10.2. Chemical stability Stable under normal conditions of use.
10.3. Possibility of hazardous reactions
Contact with acids liberates toxic gas. Stable under normal conditions of use.
10.4. Conditions to avoid
Avoid creating or spreading dust.
10.5. Incompatible materials
Strong acids. Strong bases.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. No hazardous decomposition products known at room temperature.

SECTION 11: Toxicological information			
11.1. Information on toxicological effects			
Acute toxicity (oral)	: Not classified		
Acute toxicity (dermal)	: Not classified		
Acute toxicity (inhalation)	: Not classified		
Skin corrosion/irritation	: Not classified		
Serious eye damage/irritation	: Not classified		
Respiratory or skin sensitisation	: Not classified		
Germ cell mutagenicity	: Not classified		
Carcinogenicity	: Not classified		
Reproductive toxicity	: Not classified		
STOT-single exposure	: Not classified		
STOT-repeated exposure	: Not classified.		
Aspiration hazard	: Not classified		
12/6/2023 (Version: 1.0)	EN		

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

12.1. Toxicity	
Ecology - general	: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
Acute aquatic toxicity	: Not classified
Chronic aquatic toxicity	: Not classified
12.2. Persistence and degradability No additional information available 12.3. Bioaccumulative potential	
No additional information available	
12.4. Mobility in soil No additional information available	
12.5. Results of PBT and vPvB assessment No additional information available	
12.6. Other adverse effects No additional information available	
SECTION 13: Disposal considerations	
13.1. Waste treatment methods	
Regional legislation (waste)	: Disposal must be done according to official regulations. Waste Management Regulation published in the Official Journal numbered 29314 on April 2, 2015.
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Product/Packaging disposal recommendations	: Disposal must be done according to official regulations.

SECTION 14: Transport information

SECTION 12: Ecological information

14.1. UN number Not applicable		ł	I	I
Not applicable				
	Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN proper shipping na	me			
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 hazards				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
No supplementary information ava	ilable			

Not applicable

Transport by sea

Not applicable

Air transport

Not applicable

Inland waterway transport

Not applicable

Rail transport

Not applicable

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code Not applicable

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

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.

Substance(s) are not subject to Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC.

: None of the components are listed

: Manganese is listed

: Manganese is listed

15.1.2. National regulations

Germany

Reference to AwSV

- : Water hazard class (WGK) 3, Highly hazardous to water (Classification according to AwSV, Annex 1)
- : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

: Feldspar,Quartz,Calcium Flouride,Cellulose are listed : Feldspar,Calcium Flouride,Cellulose are listed

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV

Netherlands

SZW-lijst van kankerverwekkende stoffen

SZW-lijst van mutagene stoffen

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling

Denmark

Danish National Regulations

: Young people below the age of 18 years are not allowed to use the product Pregnant/breastfeeding women working with the product must not be in direct contact with the product

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 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
ΙΑΤΑ	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

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

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РВТ	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
TLM	Median Tolerance Limit
vPvB	Very Persistent and Very Bioaccumulative
Data sources	: REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006. Supplier's safety documents.
Other information	: MAGMAWELD DISCLAIMER OF LIABILITY The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.
Full text of H- and EUH-stateme	nts:
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Dam./Irrit. Not classified	Serious eye damage/eye irritation Not classified
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT RE 1	Specific target organ toxicity — Repeated exposure, Category 1
STOT RE Not classified	Specific target organ toxicity (repeated exposure) Not classified
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H372	Causes damage to organs through prolonged or repeated exposure.

SDS EU (Oerlikon)

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