





Safety data sheet according The Hazard Communication Standard
(29 CFR 1910.1200(g) revised in 2012
Printed date: 2017.01.01 Revision date: -
Product Form: Low Carbon Steel Shot
Trade Name : KOTAR

Safety Data Sheet

Section 1: Identification	
1.1 Product Identifier	
Product Form	Low Carbon Steel Shot
Trade Name	KOTAR
1.2 Intended Use of the Product	Shot blasting / Shot peening
1.3 Name/ Address and Telephone of the Responsible Party	
Product Manufacturing Company	
Toscelik Granül Sanayi A.S. Barbaros Mah. Sütcüyolu Cad. No:70 Tosyali Plaza, Yeni Sahra TR-34746 Istanbul / TURKEY Telephone:+90.216.544 36 00 Telefax: +90.216.544 36 06 E-mail: info@toscelikabrasives.com	
USA Sales and Technical Support	
Burleigh Industries LLC PO Box 1799 Simpsonville SC29681 Tel: 864 546 1593	
1.4 Emergency Telephone Number : 1.864.546.1593 (Burleigh Industries LLC)	
For Chemical Emergency, Spill, Leak, Fire, Exposure or Accident, call day or night	
Section 2 : Hazard Identification	
2.1 Classification of Substance or Mixture	
Classification according to Regulation (EC) No 1272/2008 The product is not classified according to the CLP regulation.	
2.2 Label Elements	
Labelling according to Regulation (EC) no 1272/2008 The product is not classified according to the CLP regulations	
Hazard Pictograms	Void



Safety data sheet according The Hazard Communication Standard
(29 CFR 1910.1200(g) revised in 2012
Printed date: 2017.01.01 Revision date: -
Product Form: Low Carbon Steel Shot
Trade Name : KOTAR

Signal Word	Void		
Hazard Statements	Void		
2.3 Other Hazards			
Results of PBT and vPvB assessment			
PBT : Not applicable			
vPvB : Not applicable			
Section 3 : Composition/Information on Ingredients			
Chemical Name	EINECS No CAS No	%	GHS-US Classification
Carbon	231-153-3 7440-44-0	0,10 - 0,15	Substance with a community workplace exposure limit
Manganese	231-105-1 7439-93-3	1,20 –1,50	
Silicon	231-130-8 7440-21-3	0,10 – 0,25	Substance with a community workplace exposure limit
Sulphur	231-722-6 7704-34-9	Max. 0,035	 Skin Irrit. 2, H315
Phosphorus	231-768-7 7723-14-0	Max. 0,035	 Flam. Liq. 2, H225; Flam. Sol.1, H228; Aquatic Chronic3, H412
Iron	231-096-04 743-89-69	> % 96	
<i>Additional Information: For the wording of the listed risk phrases refer to section 16.</i>			
Section 4 : First aid measures			
4.1 Description of first air measures			
General Information: No special measures required			
After skin contact:	Wash off with plenty of water. If skin irritation continues, consult a doctor		
After eye contact:	Rinse out with plenty of water with the eyelid held wide open. If symptoms persist, consult a doctor.		
After ingestion:	Seek medical help if large quantities of material have been ingested.		
After inhalation:	Remove to fresh air. Consult a doctor. In case of unconsciousness place patient stably in side position for transportation.		



Safety data sheet according The Hazard Communication Standard
(29 CFR 1910.1200(g) revised in 2012
Printed date: 2017.01.01 Revision date: -
Product Form: Low Carbon Steel Shot
Trade Name : KOTAR

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

No further relevant information available

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available

Section 5 : Fire-fighting Measures**5.1 Extinguishing media**

Suitable extinguishing agents: Use dry chemicals or sand to exclude air.

For safety reasons unsuitable extinguishing agents: not applicable

5.2 Special hazards arising from the substance or mixture

Special risks:	Non-combustible
Flash Point:	not applicable
Auto Ignition Temperature:	(solid iron exposed to oxygen) 930 °C
Additional information:	The solid form of material is not combustible. Fire explosion hazards are moderate when material is in the form of dust and exposed to heat of flames, chemical reaction, or contact with powerful oxidizers. Cast Steel Shot will not burn or explode.

5.3 Advice for firefighters

Protective equipment: No special measures required

6. Accidental Release Measures**6.1 Personal precautions, protective equipment and emergency procedures**

Personal precaution:	Cast Steel Shot spilled or leaked onto floors can cause hazardous walking conditions.
Methods for cleaning up/taking up:	Spills or leaks should be vacuumed or swept from working areas.

6.2 Environmental precautions: No special measures required.

6.3 Methods and material for containment and cleaning up: Pick up mechanicall

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



Safety data sheet according The Hazard Communication Standard
(29 CFR 1910.1200(g) revised in 2012
Printed date: 2017.01.01 Revision date: -
Product Form: Low Carbon Steel Shot
Trade Name : KOTAR

7. Handling and Storage

7.1 Precautions for safe handling

Store material away from incompatible materials and keep dust away from sources of ignition. Special care must be exercised to prevent product leakage. If the pallet has the tension straps, exercise extra caution when removing the tension straps.

Information about fire - and explosion protection: No special measures required.

7.2 Conditions for Safe Storage, Including any Incompatibilities Storage:

Requirements to be met by storerooms and receptacles: Keep dry to reduce rusting.

Information about storage in one common storage facility: Not required.

Further information about storage conditions: Observe maximum floor loading limitations.

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

8. Exposure Controls / Personal Protection

Additional information about design of technical facilities: No further data; see item 7

8.1 Control Parameters

Ingredients with limit values that require monitoring at the workplace:

7440-44-0 carbon

WEL Long-term value: 10* 4** mg/m³ *inhalable dust **respirable

7440-21-3 silicon

WEL Long-term value: 10* 4** mg/m³ *inhalable dust **respirable dust

*Regulatory information WEL: EH40/2011

**Additional information: The lists valid during the making were used as basis.

8.2 Exposure Controls

Personal protective equipment:

General protective measures:	Do not inhale dust, usual precautionary measures are to be adhered to when handling chemicals.
Eye protection:	Approved safety glasses with side shields should be worn at all times. Safety eyewash stations should be provided in close proximity to the work area.
Hand protection	Leather gloves



Safety data sheet according The Hazard Communication Standard

(29 CFR 1910.1200(g) revised in 2012

Printed date: 2017.01.01 Revision date: -

Product Form: Low Carbon Steel Shot

Trade Name : KOTAR

Skin and body protection	Protective work clothing
Hygiene measures:	At work do not eat, drink, smoke or take drugs
9. Physical and Chemical Properties	
9.1 Information on Basic Physical and Chemical Properties	
Form	Round
Colour	Metallic, light gray to silver
Odour characteristic	odourless
pH-value	not applicable
Melting temperature	1371 - 1482 °C
Boiling temperature	2850 – 3150 °C
Flash point	not applicable
Flammability (solid, gaseous)	not determined
Ignition temperature	not determined
Decomposition temperature	not determined
Danger of explosion	Product does not present an explosion hazard
Evaporation rate:	not applicable
Solubility in water:	not applicable
Vapor pressure:	not applicable
Density at 20°C	approx. 7,0-7,8 gr/cm ³
Relative density:	approx. 3,7- 4,3 gr./cm ³
10. Stability and Reactivity	



Safety data sheet according The Hazard Communication Standard
(29 CFR 1910.1200(g) revised in 2012
Printed date: 2017.01.01 Revision date: -
Product Form: Low Carbon Steel Shot
Trade Name : KOTAR

10.1 Reactivity: No further relevant information available.

10.2 Chemical stability:

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

10.3 Possibility of hazardous reactions: No dangerous reactions known.

10.4 Conditions to avoid: No further relevant information available.

10.5 Incompatible materials: No further relevant information available.

10.6 Hazardous decomposition products: No dangerous decomposition products known.

11. Toxicological Information

11.1 Information on toxicological effect

Acute toxicity:	-
Skin Corrosion / Irritation	Based on available data, the classification criteria are not met.
Serious Eye Damage / Irritation	Based on available data, the classification criteria are not met.
Respiratory or skin sensitisation	Based on available data, the classification criteria are not met.
Germ cell mutagenicity	Based on available data, the classification criteria are not met.
Carcinogenic	Based on available data, the classification criteria are not met.
Reproductive toxicity	Based on available data, the classification criteria are not met.
Specific target organ toxicity- single exposure	Based on available data, the classification criteria are not met.
Specific target organ toxicity- repeated exposure	Based on available data, the classification criteria are not met.
Aspiration hazard	Based on available data, the classification criteria are not met.

12. Ecological Information

12.1 Toxicity

Aquatic toxicity: No further relevant information available.



Safety data sheet according The Hazard Communication Standard
(29 CFR 1910.1200(g) revised in 2012
Printed date: 2017.01.01 Revision date: -
Product Form: Low Carbon Steel Shot
Trade Name : KOTAR

12.2 Persistence and degradability: No further relevant information available.

12.3 Bio-accumulative potential: No further relevant information available.

12.4 Mobility in soil: No further relevant information available.
Additional ecological information: Generally not hazardous for water

12.5 Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable

12.6 Other adverse effects: No further relevant information available.

13. Disposal consideration

13.1 Waste treatment methods

Disposal / waste (product):

Unused steel shot: The allocation of the EWC codes / waste descriptions is to be carried out specific to branch and process in accordance with AAV 12.01.17, steel shot waste with the exception of waste which comes under 12.01.16

Packaging:

Disposal in compliance with the official regulations. Handle the contaminated packaging in the same way as the substance itself. If not officially specified differently, non-contaminated packaging may be treated like household waste or recycled.

14. Transport information

14.1 UN-Number

ADR, ADN, IMDG, IATA: Void

14.2 UN proper shipping name

ADR, ADN, IMDG, IATA :Void

14.3 Transport hazard class(es)

ADR, ADN, IMDG, IATA Class: Void

14.4 Packing group

ADR, IMDG, IATA: Void

14.5 Environmental hazards:

Marine pollutant: No

14.6 Special precautions for user :Not applicable

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



Safety data sheet according The Hazard Communication Standard
(29 CFR 1910.1200(g) revised in 2012
Printed date: 2017.01.01 Revision date: -
Product Form: Low Carbon Steel Shot
Trade Name : KOTAR

UN "Model Regulation": Void

15. Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture: No regulations apply

Labeling: according to EC directives

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

16. Other information

The information contained herein is based on the present state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.

Relevant phrases

H225 Highly flammable liquid and vapour.

H228 Flammable solid.

H315 Causes skin irritation.

H412 Harmful to aquatic life with long lasting effects.

Abbreviations and acronyms:

ADR: According to European for the transport of hazardous products (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)

VOC: Volatile Organic Compounds (USA, EU)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 2: Flammable liquids, Hazard Category 2

Flam. Sol. 1: Flammable solids, Hazard Category 1

Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3