

Date of issue: 20/11/2018

Safety Data Sheet

 Identification of the substance/mixture and of the company/undertaking Product identifier: Product name: Carbon, granular Product code(SDS NO): Q1438E-1 Details of the supplier of the safety data sheet Manufacturer/Supplier: KISHIDA CHEMICAL CO., LTD. Address: 3-1, Honmachibashi, Chuo-ku,Osaka 540-0029,JAPAN Division: Safety Management Dept. of Chemicals Telephone number: +81-6-6946-8061 FAX: +81-6-6946-1607 e-mail address: kagakuhinanzenkanri@kishida.co.jp

Hazards identification
GHS classification and label elements of the product
Classification of the substance or mixture
(Note) GHS classification without description: Not applicable/Out of classification/Not
classifiable

 3. Composition/information on ingredients Mixture/Substance selection: Substance Ingredient name:Carbon Content(%):-Chemical formula:C CAS No.:7440-44-0

4. First-aid measures

MW:12

Descriptions of first-aid measures

IF INHALED

Remove person to fresh air and keep comfortable for breathing.

Call a POISON CENTER or doctor/physician if you feel unwell.

IF ON SKIN (or hair)

ECNO:231-153-3

Take off immediately all contaminated clothing. Rinse skin with water/shower.

If skin irritation or rash occurs: Get medical advice/attention.

IF IN EYES

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

IF SWALLOWED

Rinse mouth.

Call a POISON CENTER or doctor/physician if you feel unwell.



5. Fire-fighti	ng measures		
Extinguisł	ning media		
Suitabl	e extinguishing media		
U	se appropriate extinguishing media suitable for surrounding facilities.		
Specific h	Specific hazards arising from the substance or mixture		
C	ontainers may explode when heated.		
F	ire may produce irritating, corrosive and/or toxic gases.		
Advice fo	r firefighters		
Specifi	c fire-fighting measures		
E	vacuate non-essential personnel to safe area.		
Specia	l protective equipment and precautions for fire-fighters		
W	/ear fire/flame resistant/retardant clothing.		
W	lear protective gloves/protective clothing/eye protection/face protection.		
F	irefighters should wear self-contained breathing apparatus with full face peace operated		
р	ositive pressure mode.		
6. Accidenta	l release measures		
Personne	l precautions, protective equipment and emergency procedures		
V	entilate area after material pick up is complete.		
W	lear proper protective equipment.		
Methods	and materials for containment and cleaning up		
S	weep up, place in a bag and hold for waste disposal.		
Preventiv	e measures for secondary accident		
C	ollect spillage.		
7. Handling a	and storage		
Precautio	ns for safe handling		
Prever	tive measures		

Preventive measures (Protective measures against fire and explosion) Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Exhaust/ventilator Exhaust/ventilator should be available. Safety treatments Avoid contact with skin. Avoid contact with skin. Avoid contact with eyes. Safety Measures/Incompatibility Wear protective gloves, protective clothing or face protection. When using do not eat, drink or smoke. Conditions for safe storage, including any incompatibilities Recommendation for storage Keep container tightly closed.

Store in a cool, dry place. Do not store in direct sunlight.

8. Exposure controls/personal protection

Exposure controls

Appropriate engineering controls

Do not use in areas without adequate ventilation.

Eye wash station should be available.

Washing facilities should be available.

Individual protection measures



Respiratory protection Wear respiratory protection. Hand protection Wear protective gloves. Eye protection Wear eye/face protection.

9. Physical and Chemical Properties Information on basic physical and chemical properties Physical properties Appearance: Granular or powder Color: Black Odor data N.A. pH data N.A. Phase change temperature Initial Boiling Point/Boiling point: > 4000°C Boiling range data N.A. Melting point/Freezing point: > 3500°C Decomposition temperature data N.A. Flash point data N.A. Auto-ignition temperature data N.A. Explosive properties data N.A. Vapor pressure data N.A. Specific gravity/Density: 1.8 through 3.51 Solubility Solubility in water: Insoluble n-Octanol /water partition coefficient data N.A.

0 Stahi	lity and Reactivity
Reacti	-
	N.A.
Chemi	ical stability
	Stable under normal storage/handling conditions.
Possib	pility of hazardous reactions
	The substance may ignite spontaneously on contact with air. On combustion, forms toxic carbon monoxide if ventilation is insufficient. The substance is a strong reducing agent. It reacts violently with oxidants such as bromates, chlorates and nitrates. (ICSC 0702)
Condit	tions to avoid
	Contact with incompatible materials.
	Contact with fire source.
Incom	patible materials
	Oxidizing agents
Hazaro	dous decomposition products
	Carbon oxides

11. Toxicological Information Information on toxicological effects No Acute toxicity data available No Irritant properties data available

No Allergenic and sensitizing effects data available

No Mutagenic effects data available



No Carcinogenic effects data available No Teratogenic effects data available No reproductive toxicity data available No STOT-single/repeated exposure data available No Aspiration hazard data available Additional data May cause lung disorders by massive inhalation of powdered substance. -e.g. fibrosis of lung tissue, cough, sputum, breath shortness, dyspnea, decline of lung

function, interstitial lung disease, pneumothorax

13. Disposal considerations

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Waste treatment methods
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Dispose of contents/container in accordance with local/national regulation.

14. Transport Information Not applicable to UN NO.

15. Regulatory Information

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

TSCA

Carbon

Other regulatory information

Ensure this material in compliance with federal requirements and ensure conformity to local regulations.

16. Other information

The product is not applicable to GHS classifications.

Reference Book

Globally Harmonized System of classification and labelling of chemicals, (5th ed., 2013), UN Recommendations on the TRANSPORT OF DANGEROUS GOODS 19th edit., 2015 UN Classification, labelling and packaging of substances and mixtures (table3-1 ECNO6182012) 2016 EMERGENCY RESPONSE GUIDEBOOK (US DOT) 2018 TLVs and BEIs. (ACGIH) http://monographs.iarc.fr/ENG/Classification/index.php Supplier's data/information Hazard Communication Standard - 2012 (29 CFR 1910.1200) Chemicals safety data management system "GHS Assistant" Asahi Graphic Corporation



General Disclaimer

This information contained in this data sheet represents the best information currently available to us. However, no warranty is made with respect to its completeness and we assume no liability resulting from its use. It are advised to make their own tests to determinate the safety and suitability of each such product or combination for their own purposes.

The data given here is based on current knowledge and experience. The purpose of this Safety Data Sheet is to describe the products in terms of their safety requirements. The data does not signify any warranty with regard to the products' properties.

The GHS classification data given here is based on current Japan official data (NITE published in 2017).