

SAFETY DATA SHEET

Date of Issue: Jan 20, 2017

Technical Review Date: Jan 20, 2017

Version: D0001.001

Section 1 - Product and Company Identification

HZ

A. Product name

- HZ

B. Recommended use and restriction on use

- General use : NOT AVAILABLE.

- Restriction on use : NOT AVAILABLE.

C. Manufacturer / Supplier / Distributor information**o Manufacturer information**

- Company name : DON CO., LTD
- Address 1 : 157, GUNGPYEONG-RI, DOCHEOK-MYEON
- Address 2 : GWANGJU-SI, GYEONGGI-DO, KOREA
- Dept. : QUALITY CONTROL DEPT.
- Telephone number : 82-31-769-2475(DON HEAD OFFICE)
- Emergency telephone number : 82-31-769-2475 (443)
- Fax number : 82-31-769-2479
- E-mail address : dcresearch@don21c.com

o Supplier/Distributor information

- Company name : DON CO., LTD
 - Address 1 : 157, GUNGPYEONG-RI, DOCHEOK-MYEON
 - Address 2 : GWANGJU-SI, GYEONGGI-DO, KOREA
 - Dept. : OVERSEAS SALES/BUSINESS/MARKETING DEPT.
 - Telephone number : 82-31-769-2475(DON HEAD OFFICE)
 - Emergency telephone number : 82-31-769-2475 (407)
 - Fax number : 82-31-769-2479
 - E-mail address : don@don21c.com
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Section 2 - Hazards Identification, Including Emergency Overview

HZ

A. Hazard classification

NOT CLASSIFIED AS HAZARDOUS ACCORDING TO OSHA HAZARD COMMUNICATION STANDARD, 29 CFR 1910.1200.

B. Label elements

○ **Signal word**

NOT APPLICABLE.

○ **Symbols**

NOT APPLICABLE.

○ **Pictograms**

NOT APPLICABLE.

B. Other hazards

NONE KNOWN.

Section 3 - Composition/Information on Ingredients

HZ

A. Ingredient Name: HZ

NAME	%	CAS NO	CLASSIFICATION
Zirconium dioxide	99.98	1314-23-4	N/A

EXACT PERCENTAGES ARE BEING WITHHELD AS A TRADE SECRET.

Section 4 - First Aid Measures

HZ

A. Description of first-aid measures

○ **Inhalation**

AFTER INHALATION: FRESH AIR.

○ **Skin contact**

AFTER SKIN CONTACT: TAKE OFF IMMEDIATELY ALL CONTAMINATED CLOTHING.

RINSE SKIN WITH WATER/SHOWER.

○ **Eye contact**

AFTER EYE CONTACT: RINSE OUT WITH PLENTY OF WATER.

- **Ingestion**

AFTER SWALLOWING: MAKE VICTIM DRINK WATER (TWO GLASSES AT MOST).
CONSULT DOCTOR IF FEELING UNWELL.
NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS
PERSON.

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

WE HAVE NO DESCRIPTION OF ANY TOXIC SYMPTOMS.

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

NO INFORMATION AVAILABLE.

Section 5 - Fire Fighting Measures

HZ

A. Extinguishing media

- **Suitable extinguishing media**

USE EXTINGUISHING MEASURES THAT ARE APPROPRIATE TO LOCAL CIRCUMSTANCES
AND THE SURROUNDING ENVIRONMENT.

- **Unsuitable extinguishing media**

FOR THIS SUBSTANCE/MIXTURE NO LIMITATIONS OF EXTINGUISHING AGENTS ARE
GIVEN.

B. Special hazards arising from the substance or mixture

NOT COMBUSTIBLE.

C. Advice for firefighters

- **Special protective equipment for fire-fighters**

WEAR SELF CONTAINED BREATHING APPARATUS FOR FIRE FIGHTING IF NECESSARY.

D. Further information

NO INFORMATION AVAILABLE.

Section 6 - Accidental Release Measures

HZ

WEAR APPROPRIATE PROTECTIVE DEVICES (SEE SECTION 8 EXPOSURE CONTROLS/

PERSONAL PROTECTION). AVOID CONTACT WITH EYES AND SKIN.
DO NOT INHALE THE PRODUCT.

A. Environmental precautions

DO NOT LET PRODUCT ENTER DRAINS.

B. Methods and materials for containment and cleaning up

KEEP IN SUITABLE, CLOSED CONTAINERS FOR DISPOSAL.

C. 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.

Section 7 - Handling and Storage

HZ

A. Precautions for safe handling

OBSERVE LABEL PRECAUTIONS.

B. Conditions for safe storage, including any incompatibilities

STORE IN COOL, DRY CONDITIONS IN WELL SEALED RECEPTACLE.

PROTECT FROM CONTAMINATION.

PROTECT FROM HEAT AND DIRECT SUNLIGHT.

STORE LOCKED UP.

Section 8 - Exposure Controls & Personal Protection

HZ

A. Exposure limits(s)

○ **ACGIH**

TIME WEIGHTED AVERAGE(TWA) - THRESHOLD LIMITS: 5.0 mg/m³

SHORT TERM EXPOSURE LIMIT (STEL) - THRESHOLD LIMITS: 10.0 mg/m³

○ **NIOSH/GUIDE**

RECOMMENDED EXPOSURE LIMIT(REL) - THRESHOLD LIMITS: 5.0 mg/m³

SHORT TERM EXPOSURE LIMIT (STEL) - THRESHOLD LIMITS: 10.0 mg/m³

○ **OSHA_TRANS**

PERMISSIBLE EXPOSURE LIMIT (PEL) - THRESHOLD LIMITS: 5.0 mg/m³

- **Z1A**
RECOMMENDED EXPOSURE LIMIT(REL) - THRESHOLD LIMITS: 5.0 mg/m³
SHORT TERM EXPOSURE LIMIT (STEL) - THRESHOLD LIMITS: 10.0 mg/m³
- **OSHA/Z2**
NO INFORMATION AVAILABLE.

B. Engineering controls

TECHNICAL MEASURES AND APPROPRIATE WORKING OPERATIONS SHOULD BE GIVEN PRIORITY OVER THE USE OF PERSONAL PROTECTIVE EQUIPMENT.

C. Personal protective equipment

- **Respiratory protection**
REQUIRED WHEN DUSTS ARE GENERATED.
- **Eye/face protection**
USE EQUIPMENT FOR EYE PROTECTION TESTED AND APPROVED UNDER APPROPRIATE GOVERNMENT STANDARDS SUCH AS NIOSH (US)
- **Hand protection**
CHEMICAL-RESISTANT, IMPERVIOUS GLOVES COMPLYING WITH AN APPROVED STANDARD SHOULD BE WORN AT ALL TIMES WHEN HANDLING CHEMICAL PRODUCTS IF A RISK ASSESSMENT INDICATES THIS IS NECESSARY.
- **Hygiene measures**
CHANGE CONTAMINATED CLOTHING. APPLICATION OF SKIN- PROTECTIVE BARRIER CREAM RECOMMENDED. WASH HANDS AFTER WORKING WITH SUBSTANCE.
- **Others**
NO INFORMATION AVAILABLE.

Section 9 - Physical & Chemical Properties

HZ

A. Physical state	SOLID(TABLET)
B. Color	GREY
B. Odor	ODORLESS
C. Odor threshold	NOT APPLICABLE.
D. pH	NO INFORMATION AVAILABLE.
E. Melting point/Freezing point	~ 2,687°C - lit.
F. Initial Boiling Point/Boiling Ranges	NO INFORMATION AVAILABLE
G. Flash point	NO INFORMATION AVAILABLE.
H. Evaporation rate	NO INFORMATION AVAILABLE.

I. Flammability(Solid, gas)	THE PRODUCT IS NOT FLAMMABLE.
J. Upper/Lower Flammability or explosive limits	NO INFORMATION AVAILABLE.
K. Vapor pressure	NO INFORMATION AVAILABLE.
L. Solubility	NO INFORMATION AVAILABLE.
M. Vapor density	NO INFORMATION AVAILABLE.
N. Specific gravity	~ 5.7 g/mL
O. Partition coefficient of n-octanol/water	NO INFORMATION AVAILABLE.
P. Autoignition temperature	NO INFORMATION AVAILABLE.
Q. Decomposition temperature	NO INFORMATION AVAILABLE.
R. Viscosity	NO INFORMATION AVAILABLE.
S. Molecular weight	123.22 g/mol

Section 10 - Stability & Reactivity Data**HZ**

A. Reactivity

NO INFORMATION AVAILABLE.

B. Chemical stability

STABLE UNDER RECOMMENDED STORAGE CONDITIONS.

C. Conditions to avoid

EXPOSURE TO MOISTURE MAY AFFECT PRODUCT QUALITY.

D. Incompatible materials

NO INFORMATION AVAILABLE.

E. Hazardous decomposition products

NO INFORMATION AVAILABLE.

Section 11 - Toxicological Information**HZ**

A. Information on toxicological effects

- Likely route of exposure

EYE CONTACT, SKIN CONTACT, INGESTION

○ **Target Organs**

RESPIRATORY SYSTEM

○ **Specific target organ systemic toxicity - single exposure**

THE SUBSTANCE OR MIXTURE IS NOT CLASSIFIED AS SPECIFIC TARGET ORGAN TOXICANT, SINGLE EXPOSURE.

○ **Specific target organ systemic toxicity - repeated exposure**

THE SUBSTANCE OR MIXTURE IS NOT CLASSIFIED AS SPECIFIC TARGET ORGAN TOXICANT, REPEATED EXPOSURE.

○ **Aspiration hazard**

REGARDING THE AVAILABLE DATA THE CLASSIFICATION CRITERIA ARE NOT FULFILLED.

B. Carcinogenicity

○ **IARC**

NO INGREDIENT OF THIS PRODUCT PRESENT AT LEVELS GREATER THAN OR EQUAL TO 0.1% IS IDENTIFIED AS PROBABLE, POSSIBLE OR CONFIRMED HUMAN CARCINOGEN BY *IARC*.

○ **OSHA**

NO INGREDIENT OF THIS PRODUCT PRESENT AT LEVELS GREATER THAN OR EQUAL TO 0.1% IS IDENTIFIED AS A CARCINOGEN OR POTENTIAL CARCINOGEN BY *OSHA*.

○ **NTP**

NO INGREDIENT OF THIS PRODUCT PRESENT AT LEVELS GREATER THAN OR EQUAL TO 0.1% IS IDENTIFIED AS A KNOWN OR ANTICIPATED CARCINOGEN BY *NTP*.

○ **ACGIH**

NO INGREDIENT OF THIS PRODUCT PRESENT AT LEVELS GREATER THAN OR EQUAL TO 0.1% IS IDENTIFIED AS A CARCINOGEN OR POTENTIAL CARCINOGEN BY *ACGIH*.

C. Further information

HAZARDOUS PROPERTIES CANNOT BE EXCLUDED BUT ARE UNLIKELY WHEN THE PRODUCT IS HANDLED APPROPRIATELY.

HANDLE IN ACCORDANCE WITH GOOD INDUSTRIAL HYGIENE AND SAFETY PRACTICE.

Section 12 - Ecological Information & Environmental Information

HZ

A. Ecotoxicity

NO INFORMATION AVAILABLE.

B. Persistence and degradability

NO INFORMATION AVAILABLE.

C. Bioaccumulative potential

NO INFORMATION AVAILABLE.

D. Mobility in soil

NO INFORMATION AVAILABLE.

E. Additional ecological information

NO INFORMATION AVAILABLE.

Section 13 - Disposal Considerations

HZ

A. Disposal methods

DISPOSE OF CONTENTS/ CONTAINER IN ACCORDANCE WITH THE LOCAL/REGIONAL /NATIONAL/INTERNATIONAL REGULATIONS.

DISPOSE OF WASTE PRODUCT IN A PERMITTED INDUSTRIAL WASTE FACILITY.

B. Uncleaned packaging

DISPOSAL MUST BE MADE ACCORDING TO OFFICIAL REGULATIONS.

Section 14 - Transport Information

HZ

A. Land transport (DOT)

NOT CLASSIFIED AS DANGEROUS IN THE MEANING OF TRANSPORT REGULATIONS.

B. Air transport (IATA)

NOT CLASSIFIED AS DANGEROUS IN THE MEANING OF TRANSPORT REGULATIONS.

C. Sea transport (IMDG)

NOT CLASSIFIED AS DANGEROUS IN THE MEANING OF TRANSPORT REGULATIONS.

Section 15 - Regulatory Information

HZ

A. National and/or international regulatory information

- **POPs Management Law**
NOT APPLICABLE
- **Information of EU Classification**
 - * **Classification**
NOT APPLICABLE
 - * **Risk Phrases**
NOT APPLICABLE
 - * **Safety Phrase**
NOT APPLICABLE
- **U.S. Federal regulations**
 - * **OSHA PROCESS SAFETY (29 CFR 1910.119)**
NOT APPLICABLE
 - * **CERCLA Section 103 (40CFR302.4)**
NOT APPLICABLE
 - * **EPCRA Section 302 (40CFR355.30)**
NO CHEMICALS IN THIS MATERIAL ARE SUBJECT TO THE REPORTING REQUIREMENTS OF SARA TITLE III, SECTION 302.
 - * **EPCRA Section 304 (40CFR355.40)**
NOT APPLICABLE
 - * **EPCRA Section 313 (40CFR372.65)**
THIS MATERIAL DOES NOT CONTAIN ANY CHEMICAL COMPONENTS WITH KNOWN CAS NUMBERS THAT EXCEED THE THRESHOLD (DE MINIMIS) REPORTING LEVELS ESTABLISHED BY SARA TITLE III, SECTION 313.
- **Rotterdam Convention listed ingredients**
NOT APPLICABLE
- **Stockholm Convention listed ingredients**
NOT APPLICABLE
- **Montreal Protocol listed ingredients**
NOT APPLICABLE

Section 16 - Other Information

HZ

A. Reference

THE INFORMATION CONTAINED HEREIN IS BELIEVED TO BE ACCURATE. IT IS PROVIDED INDEPENDENTLY OF ANY SALE OF THE PRODUCT FOR PURPOSE OF HAZARD COMMUNICATION. IT IS NOT INTENDED TO CONSTITUTE PERFORMANCE INFORMATION CONCERNING THE PRODUCT. NO EXPRESS WARRANTY, OR IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE IS MADE WITH RESPECT TO THE PRODUCT OR THE INFORMATION CONTAINED HEREIN.

THIS SAFETY DATA SHEET WAS COMPILED WITH DATA AND INFORMATION FROM THE FOLLOWING SOURCES: *OSHA, NITE, ESIS, NLM, SIDS, IPCS*

B. Issue date

- Jan 20, 2017

C. Revision number and Last date revised

- Rev. 1 , Jan 20, 2017

D. Other

- THIS SDS IS PREPARED ACCORDING TO *THE GLOBALLY HARMONIZED SYSTEM (GHS)*.

Description: HZ

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