

Material Safety Data Sheet: Z-DISK II

Supersedes Date 06/11/2010

Issuing Date 01/15/2014

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name Z-DISK II

Recommended use Abrasive

Information on Manufacturer

Trust-X by Partsmaster, Div of NCH Corp.

P.O. Box 655326

Dallas, TX 75265-5326

Product Code 8784400

Chemical nature Inorganic solid blend

Emergency Telephone Number

CHEMTREC® 800-424-9300

2. HAZARDS IDENTIFICATION

Emergency Overview

WARNING

Irritating to eyes

Respiratory irritation

Keep out of reach of children

Color green Blue

Physical State Solid

Odor Odorless

Potential Health Effects

Principle Route of Exposure

Eye contact, Inhalation.

Primary Routes of Entry

None known

Acute Effects

Eyes

Dust may cause eye irritation.

Skin

Excessive contact may cause mechanical irritation seen as itching and redness .

Inhalation

Prolonged exposure to grinding dust may cause upper respiratory problems or aggravate existing conditions . Inhalation may cause central nervous system effects. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.

Ingestion

Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Chronic Toxicity

Long term overexposure to respirable dust may cause lung damage (fibrosis) with symptoms of coughing, shortness of breath and diminishing breath capacity. .

Target Organ Effects

Respiratory system, Auditory System , Central nervous system, Kidney, skeletal system.

Aggravated Medical Conditions

Respiratory disorders, Central nervous system, Kidney disorders.

Interactions with Other Chemicals

Use of alcoholic beverages may enhance toxic effects.

Potential Environmental Effects

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. See Section 12 for additional Ecological information.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS-No
Zirconium oxide	1314-23-4
Potassium fluoroborate	14075-53-7
Sodium aluminum fluoride	15096-52-3
Kaolinite, Hydrous Aluminum Silicate	1332-58-7

4. FIRST AID MEASURES

Eye Contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician

Skin Contact

Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes

Inhalation

Move to fresh air

Ingestion

Clean mouth with water and afterwards drink plenty of water

Notes to physician

Treat symptomatically

5. FIRE-FIGHTING MEASURES

Flash Point

The product is not flammable

Method

Not applicable

Autoignition Temperature No information available.

Upper No data available

Lower No data available

Suitable Extinguishing Media

Carbon dioxide (CO2). Dry chemical. Foam. Water spray.

Specific hazards arising from the chemical

The product causes burns of eyes, skin and mucous membranes

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

NFPA	Health 1	Flammability 0	Instability 0
HMIS	Health 1	Flammability 0	Instability 0

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Ensure adequate ventilation
Environmental Precautions	Prevent further leakage or spillage if safe to do so
Methods for Containment	No information available
Methods for Cleaning Up	Clean contaminated surface thoroughly. Avoid dust formation. Sweep up or vacuum up spillage and collect in suitable container for disposal.
Neutralizing Agent	Not applicable.

7. HANDLING AND STORAGE

Handling	Handle and store in accordance with ANSI Standard B7.1.			
Storage	Keep in a dry place.			
Storage Temperature	Minimum	No information available	Maximum	No information available
Storage Conditions	Indoor	X	Outdoor	Heated
				Refrigerated

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH
Zirconium oxide	TWA: 5 mg/m ³ STEL: 10 mg/m ³	TWA: 5 mg/m ³	IDLH: 25 mg/m ³ STEL 10 mg/m ³ TWA: 5 mg/m ³
Potassium fluoroborate	TWA: 2.5 mg/m ³	TWA: 2.5 mg/m ³	TWA: 2.5 mg/m ³
Sodium aluminum fluoride	TWA: 2.5 mg/m ³	TWA: 2.5 mg/m ³	IDLH: 250 mg/m ³ TWA: 2.5 mg/m ³
Kaolinite, Hydrous Aluminum Silicate	TWA: 2 mg/m ³	TWA: 15 mg/m ³ TWA: 5 mg/m ³	TWA: 10 mg/m ³ TWA: 5 mg/m ³

Engineering Measures	Local ventilation is recommended to control exposure from operations that can generate dusty conditions. Local ventilation is preferred, because it prevents dispersion into work areas by controlling it at its source. .
Personal Protective Equipment	
Eye/Face Protection	Safety glasses with side-shields
Skin Protection	Leather gloves
Respiratory Protection	When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
General Hygiene Considerations	Do not eat, drink or smoke when using this product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Solid	Viscosity	Not applicable
Color	green Blue	Odor	Odorless
Appearance	Textured black paste	pH	Not applicable
Specific Gravity	No data available	Evaporation Rate	Not applicable
Percent Volatile (Volume)	No information available	VOC Content (%)	No information available
Vapor Pressure	Not applicable	Vapor Density	Not applicable
Solubility	Insoluble	Boiling Point/Range	No data available

10. STABILITY AND REACTIVITY

Chemical Stability	Stable.
Conditions to Avoid	None known
Incompatible Products	No materials to be especially mentioned
Hazardous Decomposition Products	None under normal use
Possibility of Hazardous Reactions	None under normal processing

11. TOXICOLOGICAL INFORMATION

Product Information	No information available.
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Component Information

Acute Toxicity

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation	Draize Test	Other
Zirconium oxide	no data available	no data available	no data available	no data available	no data available
Potassium fluoroborate	= 5854 mg/kg (Rat)	no data available	no data available	no data available	no data available
Sodium aluminum fluoride	> 5 g/kg (Rat)	no data available	no data available	no data available	no data available
Kaolinite, Hydrous Aluminum Silicate	no data available	no data available	no data available	no data available	no data available

Chronic Toxicity

Component	Mutagenicity	Sensitization	Developmental Toxicity	Reproductive Toxicity	Target Organ Effects
Zirconium oxide	no data available	no data available	no data available	no data available	skin, respiratory system
Potassium fluoroborate	no data available	no data available	no data available	no data available	no data available
Sodium aluminum fluoride	no data available	no data available	no data available	no data available	eyes, CNS, respiratory system, skeleton, kidneys, s
Kaolinite, Hydrous Aluminum Silicate	no data available	no data available	no data available	no data available	respiratory system, stomach

Carcinogenicity

Component	ACGIH	IARC	NTP	OSHA	Other
Zirconium oxide	not applicable	not applicable	not applicable	not applicable	not applicable
Potassium fluoroborate	not applicable	not applicable	not applicable	not applicable	not applicable
Sodium aluminum fluoride	not applicable	not applicable	not applicable	not applicable	not applicable
Kaolinite, Hydrous Aluminum Silicate	not applicable	not applicable	not applicable	not applicable	not applicable

12. ECOLOGICAL INFORMATION

Product Information

No information available.

Component Information

Component	Toxicity to Algae	Toxicity to Fish	Microtox	Water Flea	log Pow
Zirconium oxide	no data available	no data available	no data available	no data available	N/A
Potassium fluoroborate	EC50 = 95 mg/L Desmodesmus subspicatus 96 h	no data available	no data available	no data available	N/A
Sodium aluminum fluoride	no data available	no data available	no data available	no data available	N/A
Kaolinite, Hydrous Aluminum Silicate	no data available	no data available	no data available	no data available	N/A

Persistence and Degradability

No information available.

Bioaccumulation

No information available.

Mobility

No information available.

13. DISPOSAL CONSIDERATIONS

Product Disposal

Dispose of in accordance with local regulations.

Container Disposal

Empty containers should be taken for local recycling, recovery, or waste disposal.

14. TRANSPORT INFORMATION

DOT	Not regulated
TDG	Not regulated
ICAO	Not regulated
IATA	Not regulated
IMDG/IMO	Not regulated

15. REGULATORY INFORMATION

Inventories

TSCA

Complies

DSL

Complies

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazardous Categorization

Acute Health Hazard	Chronic Health Hazard	Fire Hazard	Sudden Release of Pressure Hazard	Reactive Hazard
Yes	Yes	No	No	No

CERCLA

Component	Hazardous Substances RQs	CERCLA EHS RQs
Zirconium oxide	Not applicable	Not applicable
Potassium fluoroborate	Not applicable	Not applicable
Sodium aluminum fluoride	Not applicable	Not applicable
Kaolinite, Hydrous Aluminum Silicate	Not applicable	Not applicable

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS Hazard Class

D1B Toxic materials

**16. OTHER INFORMATION**

Prepared By Don Stewart
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 Reason for Revision No information available.
 Glossary No information available.
 List of References. No information available.

Trust-X by Partsmaster, Div of NCH Corp. assumes no responsibility for personal injury or property damage caused by the use, storage, or disposal of the product in a manner not recommended on the product label. Users assume all risks associated with such unrecommended use, storage or disposal of the product. The information provided on this document is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.