Kraft Chemical
Trusted ingredients *for* new ideas

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SAFETY DATA SHEET
TIXOSIL 68 B FCC

1. PRODUCT INFORMATION AND COMPANY IDENTIFICATION

Product Name: Tixosil 68 B FCC

Company: Kraft Chemical Company
750 Oakwood Road
Lake Zurich, IL 60047
Phone: 708-345-5200

Emergency Contact: Infotrac: 800-535-5053

2. HAZARD IDENTIFICATION

Although OSHA has not adopted the environmental portion of the GHS regulations, this document may include information on environmental effects.

Classification of the substance or mixture

HCS 2012 (29 CFR 1910.1200)

- Not hazardous product according to the OSHA Globally Harmonized System (GHS)

Label Elements

HCS 2012 (29 CFR 1910.1200)

- Not hazardous product according to the OSHA Globally Harmonized System (GHS)

Other hazards which do not result in classification

- Mild respiratory irritant
- By mechanical effect
- Slightly irritating to the eyes and skin.
- NO particular fire or explosion hazard
- Electrostatic charges may build up by swirling, pneumatic transport, pouring etc.

3. COMPOSITION/INFORMATION ON INGREDIENTS

INCI NAME	CAS NO.	CONCENTRATION (%)
Results are expressed in relation to the dry product. Alternative CAS # 7631-85-9		
Precipitated Amorphous Silica	112926-00-8	> = 95

* The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

Description of first-aid measures

In case of inhalation

- Move to fresh air
- Keep at rest
- If symptoms persist, call a physician

In case of skin contact

- If on skin, rinse well with water
- If skin irritation persists, call a physician

In case of eye contact

- Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
- If eye irritation persists, call a physician

In case of ingestion

- Rinse mouth with water
- If symptoms persist, call a physician

Most important symptoms and effects, both acute and delayed

Effects

- Skin contact may aggravate existing skin disease
- Inhalation of product may aggravate existing chronic respiratory problems such as asthma, emphysema or bronchitis

Indication of any immediate medical attention and special treatment needed

Notes to physician

- All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.
- Treat symptomatically
- There is no specific antidote available

5. FIRE FIGHTING MEASURES

Flash point:	Not applicable (nonflammable solid)
Autoignition temperature:	Not auto-flammable
Flammability / Explosive limit:	Lower flammability / explosion limit: Not applicable Upper flammability / explosion limit: Not applicable

Extinguishing media

Suitable extinguishing media

- All extinguishing agents can be used
- Use extinguishing measures that are appropriate to local circumstances and the surrounding environment

Unsuitable extinguishing media

- None known

Special hazards arising from the substance or mixture

Specific hazards during fire fighting

- Not combustible
- Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations

Hazardous combusting products

- No hazardous combustion products are known

Advice for firefighters

Special protective equipment for fire-fighters

- Firefighters should wear NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing.
- Wear full protective clothing and self-contained breathing apparatus
- Personal protective equipment comprising: suitable protective gloves, safety goggles and protective clothing.

Specific firefighting methods

- Use appropriate means for fighting adjacent fires.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

- Avoid contact with eyes
- Safety glasses
- Personal protective equipment
- Respiratory protection

Environmental precautions

- No harmful effect to the environment is known or expected under normal conditions of use.

Methods and materials for containment and cleaning up

Recovery

- Sweep up and shovel into suitable containers for disposal

Decontamination / cleaning

- Wash off with plenty of water
- Recover the cleaning water for subsequent disposal

Disposal

- Treat recovered material as described in the section “Disposal considerations”

Additional advice

- Avoid dust formation

Reference to other sections

- 7. HANDLING AND STORAGE
- 8. EXPOSURE CONTROLS/PERSONAL PROTECTION
- 13. DISPOSAL CONSIDERATIONS

7. HANDLING AND STORAGE

Precautions for safe handling

- Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations.
- Ensure all equipment is electrically grounded before beginning transfer operations
- Avoid dust formation

Hygiene measures

- Personal hygiene is an important work practice exposure control measure, and the following general measures should be taken when working with or handling this materials:
  1) Do not store, use, and/or consume foods, beverages, tobacco products, or cosmetics in areas where this material is stored.
  2) Wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics, or using the toilet.
  3) Wash exposed skin promptly to remove accidental splashes or contact with material.

Dust explosion class

- St0

Conditions for safe storage, including any incompatibilities

Technical measures.Storage conditions

- Do not stack big-bags
- Protect from moisture
- Store away from heat

Packaging material

- Suitable material
- Polypropylene bags
- Paper bags

Specific end use(s)

- No data available

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Introductory Remarks: These recommendations provide general guidance for handling this product. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. Assistance with selection, use and maintenance of worker protection equipment is generally available from equipment manufacturers.

Control parameters

Components with workplace occupational exposure limits

Ingredients	Value type	Value	Basis
Precipitated Amorphous Silica	TWA	20Million particles per cubic foot	Occupational Safety and Health Administration - Table Z-1 Limits for Air Contaminants
	Form of exposure : Dust Millions of particles per cubic foot of air, based on impinger samples counted by lightfield techniques., mppcf X 35.3 = million particles per cubic meter = particles per c.cExpressed as :Silica		
Precipitated Amorphous Silica	TWA	80mg/m3 / %SiO2	Occupational Safety and Health Administration - Table Z-3 Mineral Dusts
	Form of exposure : Dust Expressed as :Silica		
Precipitated Amorphous Silica	TWA	6 mg/m3	National Institute for Occupational Safety and Health
	Expressed as :Silica		
Particulates not otherwise regulated	PEL	15 mg/m3	Occupational Safety and Health Administration - Table Z-1 Limits for Air Contaminants
	Form of exposure : Total dust		
Particulates not otherwise regulated	PEL	5 mg/m3	Occupational Safety and Health Administration - Table Z-1 Limits for Air Contaminants
	Form of exposure : Respirable fraction		

Exposure controls / Control measures

Engineering measures

- Where engineering controls are indicated by use conditions or a potential for excessive exposure exists, the following traditional exposure control techniques may be used to effectively minimize employee exposures:
- Local exhaust
- Dust must be extracted directly at the point of origin.

Individual protection measures

Respiratory protection

- When respirators are required, select NIOSH/MSHA approved equipment based on actual or potential airborne concentrations and in accordance with the appropriate regulatory standards and/or industrial recommendations.
- Under normal conditions, in the absence of other airborne contaminants, the following devices should provide protection from this material up to the conditions specified by the appropriate local standard(s):
- Respirator with a dust filter

Hand protection
- For prolonged or repeated contact use protective gloves.

Eye protection
- Eye and face protection requirements will vary dependent upon work environment conditions and material handling practices. Appropriate ANSI Z87 approved equipment should be selected for the particular use intended for this material.
- Eye contact should be prevented through the use of:
- Safety glasses

Skin and body protection
- Long sleeved clothing

Hygiene measures
- Personal hygiene is an important work practice exposure control measure and the following general measures should be taken when working with or handling this materials:
  1) Do not store, use, and/or consume foods, beverages, tobacco products, or cosmetics in areas where this material is stored.
  2) Wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics, or using the toilet.
  3) Wash exposed skin promptly to remove accidental splashes or contact with material.

Protective measures
- The protective equipment must be selected in accordance with current local standards and in cooperation with the supplier of the protective equipment.
- Selection of appropriate personal protective equipment should be based on an evaluation of the performance characteristics of the protective equipment relative to the task(s) to be performed, conditions present, duration of use, and the potential hazards, and/or risks that may occur during use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Milled Powder Solid White
Particle size	10 - 20 µm
Odor Threshold	None
pH	5.0 - 9.0 (5 % (m / m)) (aqueous suspension)
Melting point/range	> 3,092 °F (> 1,700 °C)
Boiling point/boiling range	Not applicable
Sublimation point	Not applicable
Flash point	Not applicable (nonflammable solid)
Evaporation rate (Butylacetate = 1)	Not applicable
Flammability (solid, gas)	Not applicable
Flammability / Explosive limit	Lower flammability/explosion limit: Not applicable
	Upper flammability/explosion limit: Not applicable
Auto ignition temperature	not auto-flammable
Vapor pressure	Not applicable

Vapor density	Not applicable
Density	2.1 g/cm3 Intrinsic
Bulk density	100 - 200 kg/m3 Packaged Product
Solubility	Water solubility : 120 - 160 mg/l (68 °F (20 °C))
	Solubility in other solvents: no data available
Partition coefficient: n-octanol/water	Not applicable
Thermal decomposition	Not applicable
Viscosity	Viscosity, dynamic : Not applicable
	Viscosity, kinematic : Not applicable
Explosive properties	Not applicable
Oxidizing properties	Not considered as oxidizing.
Oxidation / Reduction Potential	Not applicable
Hygroscopicity	Hygroscopic
Molecular weight	60.2 g/mol

10. STABILITY AND REACTIVITY

Reactivity:	No hazard to be specially mentioned.
Chemical stability:	Stable under normal conditions.
Possibility of hazardous reactions:	No dangerous reaction known under conditions of normal use.
Spontaneous polymerization:	Hazardous polymerization does not occur.
Conditions to avoid:	None known.
Incompatible materials:	Chlorine trifluoride Fluorine Hydrogen fluoride Oxygen difluoride Strong oxidizing agents
Hazardous decomposition products.	No hazardous decomposition products are known.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Acute oral toxicity:

LD50: > 5,000 mg/kg – Rat. Unpublished reports

Acute inhalation toxicity:
Risk of physical blockage of the upper respiratory tract by analogy an LC50/inhalation/4h/rat could not be determined because no mortality of rats was observed at the maximum achievable concentration.

Acute dermal toxicity:
LD50 > 5,000 mg/kg – Rabbit. Unpublished reports.

Acute toxicity (other routes of administration)
No data available.

Skin corrosion / irritation:
Prolonged or repeated contact may dry skin and cause irritation.

Serious eye damaged / eye irritation:
Dust contact with the eyes can lead to mechanical irritation.

Respiratory or skin sensitization:
Humans no cutaneous sensitization reaction observed. Unpublished reports.

Mutagenicity

Genotoxicity in vitro:
In vitro tests did not show mutagenic effects. Unpublished reports.

Genotoxicity in vivo:
In vivo tests did not show mutagenic effects. Unpublished reports.

Carcinogenicity:

Rat Oral Exposure:	Animal testing did not show any carcinogenic effects. Unpublished reports.
Mouse Oral exposure:	Animal testing did not show any carcinogenic effects. Unpublished reports.

This product does not contain any ingredient designated as probable or suspected human carcinogens by:

NTP
IARC
OSHA
ACGIH

Toxicity for reproduction and development

Toxicity to reproduction / fertility:
Fertility and developmental toxicity tests did not reveal any effect on reproduction. Unpublished reports.

Developmental toxicity / teratogenicity:

Precipitated amorphous silica:	Rat developmental toxicity – No observed effect. Mouse developmental toxicity – No observed effect.

STOT

STOT – single exposure:
The substance or mixture is not classified as specific target organ toxicant, single exposure.
STOT – repeated exposure:
The substance or mixture is not classified as specific target organ toxicant, repeated exposure.
If inhaled no irreversible effect or symptoms of silicosis were observed during the inhalation toxicity tests. Unpublished reports.
Oral exposure: No irreversible effects were observed during chronic oral toxicity tests. Unpublished reports.
Neurological effects
No neurotoxic effects observed.

Experience with human exposure

Inhalation:	Mild respiratory irritant. Unpublished reports.
Aspiration toxicity:	Not applicable.

12. ECOLOGICAL INFORMATION

Aquatic compartment

Acute toxicity to fish:
LC50 – 96 h: > 10,000 mg/l – Danio rerio (zebra fish) Unpublished reports

Acute toxicity to daphnia and other

Aquatic invertebrates:
EC50 – 24 h: > 1,000 mg/l – Daphnia magna (water flea)

Persistence and degradability

Abiotic degradation photodegradation:
Precipitated Amorphous Silica Photodegradation – the product is chemically stable. Not expected.
Biodegradation
Biodegradability – Inert mineral product. Not degradable
Bioaccumulative potential
Bioconcentration factor (BCF) – Not bio accumulable. Published data.

Mobility in soil

Adsorption potential (Koc)

- Precipitated Amorphous Silica Mobility
- Complexation / precipitation
- Water
- Volatility
- Soil / sediments
- Solubility(ies)
- Non-significant hydrolysis
- Air

Known distribution to environmental compartments

Ultimate destination of the product:	Soil
Ultimate destination of the product:	Sediment
Results of PBT and vPvB assessment:	No data available
Other adverse effects:	No data available

Ecotoxicity assessment

Acute aquatic toxicity:

The product does not have any known adverse effects on the aquatic organisms tested.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Product disposal:

Chemical additions, processing or otherwise altering this material may make the waste management information presented in this MSDS incomplete, inaccurate or otherwise inappropriate. Please be advised that state and local requirements for waste disposal may be more restrictive or otherwise different from federal laws and regulations. Consult state and local regulations.

Prohibition:

Should noy be released into the environment.

Waste code:

- Environmental Protection Agency
- Hazardous Waste: NO

Advice on cleaning and disposal of packaging:

Cleaning is not required prior to disposal. Dispose of in accordance with local regulations.

14. TRANSPORT INFORMATION

DOT: Not regulated
TDG: Not regulated
NOM: Not regulated
IMDG: Not regulated
IATA: Not regulated

15. REGULATORY INFORMATION

Inventory information

United States TSCA Inventory	On TSCA Inventory
Canadian Domestic Substances List (DSL)	All components of this product are on the Canadian DSL.
Australia Inventory of Chemical Substances (AICS)	On the inventory, or in compliance with the inventory.
Japan. CSCL – Inventory of Existing and New Chemical Substances	On the inventory, or in compliance with the inventory.
Korea. Korean Existing Chemicals Inventory (KECI)	On the inventory, or in compliance with the inventory.
China. Inventory of Existing Chemical Substance in China (IECSC)	On the inventory, or in compliance with the inventory.
Philippines Inventory of Chemical and Chemical Substances (PICCS)	On the inventory, or in compliance with the inventory.
Taiwan. Chemical Substance Inventory (TCSI)	Listed on Inventory.
Mexico INSQ (INSQ)	Listed on Inventory.

Additional Information

For USA Inventory (TSCA) Purposes, this product is identified as Silica (CAS-No. : 7631-86-9)

Federal Regulations

US. EPA EPCRA SARA Tittle III

SARA HAZARD DESIGNATION SECTIONS 311/312 (40 CFR 370)

Fire hazard:	No
Reactivity Hazard:	No
Sudden Release of Pressure Hazard:	No
Acute Health Hazard:	Yes
Chronic Health Hazard:	No

Section 313 Toxic Chemicals (40 CFR 372.65)

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Tittle III, Section 313.

Section 302 Emergency Planning Extremely Hazardous Substance Threshold Planning Quantity (40 CFR 355)

No chemicals in this material are subject to the reporting requirements of SARA Tittle lll, Section 302.

Section 302 Emergency Planning Extremely Hazardous Substance Reportable Quantity (40 CFR 355)

This material does not contain any components with a SARA 302 RQ.

Section 304 Emergency Release Notification Reportable Quantity (40 CFR 355)

This material does not contain any components with a Section 304 EHS RQ.

US. EPA CERCLA Hazardous Substance and Reportable Quantities (40 CFR 302.4)

This material does not contain any components with a CERCLA RQ.

State Regulations

US. California Safe Drinking Water & Toxic Enforcement Act (Proposition 65)
This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

16. OTHER INFORMATION

All statements, technical information and recommendations contained herein are based on tests and data which Kraft Chemical Company believes to be currently reliable, but this accuracy or completeness thereof is not guaranteed, and no warranty of any kind is made with respect thereto. This information is not intended as a license to operate under or a recommendation to practice or infringe any patent of this company or others covering any process, composition of matter or use. Since we shall have no control of the use of the product described here in, we assume no Liability for loss or damage incurred from the proper or improper use of such product.