

# SAFETY DATA SHEET

Revision Date 01-Jan.-2023 Version 1

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product Name KC-47

Other means of identification

Product Code 20062

Recommended use of the chemical and restrictions on use

Recommended Use Rust remover

**Uses advised against** Follow the directions for use on the label when applying this product

Details of the supplier of the safety data sheet

**Manufacturer Address** 

Safe Foods Chemical Innovations

1501 E. 8th Street

North Little Rock, AR 72114

Emergency telephone number

Company Phone Number 501-758-8500

Emergency Telephone Chemtrec 1-800-424-9300

## 2. HAZARDS IDENTIFICATION

### Classification

### **OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity - Oral	Category 4
Serious eye damage/eye irritation	Category 2B

## Label elements

### **Emergency Overview**

## Warning

## Hazard statements

Harmful if swallowed Causes eye irritation



Appearance Aqueous solution Physical state Liquid Odor None

## **Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

## **Precautionary Statements - Response**

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: Call a poison center or doctor if you feel unwell. Rinse mouth

#### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

## Hazards not otherwise classified (HNOC)

Not Applicable

## Other Information

· Toxic to aquatic life

3. COMPOSITION/INFORMATION ON INGREDIENTS					
Chemical Name CAS No. weight-%					
Water	7732-18-5	86-94			
Sodium nitrite	7632-00-0	6-12			
Trade Secret	Proprietary	0.5-1.5			

<sup>\*</sup>The exact percentage (concentration) of composition has been withheld as a trade secret.

### 4. FIRST AID MEASURES

#### First aid measures

Eye contact

Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing eye. If eye irritation persists: Get medical advice/attention.

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Skin contact

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash contaminated clothing and shoes before reuse. Get medical attention if irritation develops and persists.

Inhalation Remove to fresh air. Immediate medical attention is not required.

Ingestion Do NOT induce vomiting. Drink plenty of water. Never give anything by mouth to an unconscious person.

Call a physician immediately.

Most important symptoms and effects, both acute and delayed **Symptoms** See Section 11 for symptom information.

Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

### 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Dry chemical. Water spray (fog). Carbon dioxide (CO2). Foam. Unsuitable extinguishing media No information available.

Specific hazards arising from the chemical

No information available.

**Hazardous combustion products** Carbon monoxide. Nitrogen oxides (NOx).

Explosion data

**Sensitivity to Mechanical Impact** None. Sensitivity to Static Discharge None.

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. Cool containers with flooding quantities of water until well after fire is out. Non-combustible, substance itself does not burn but may decompose upon heating to produce corrosive and/or toxic fumes.

### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Use personal protection recommended in Section 8. Ensure adequate ventilation, especially **Personal precautions** 

in confined areas.

For emergency responders

Isolate area. Keep unnecessary personnel away.

**Environmental precautions Environmental precautions** 

See Section 12 for additional ecological information. Prevent entry into waterways, sewers,

basements or confined areas.

Methods and material for containment and cleaning up

Prevent further leakage or spillage if safe to do so. Contain and collect spillage with **Methods for containment** 

> non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13). Collect spillage. Soak up with inert absorbent material. Sweep up and shovel into suitable

Methods for cleaning up

containers for disposal. Following product recovery, flush area with water.

## 7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Use personal protection recommended in Section 8. Avoid contact with skin, eyes or clothing.

Use only in well-ventilated areas. Avoid breathing vapors or mists. Wash thoroughly after

handling. Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Keep from freezing.

Incompatible materials Acids.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

**Exposure Guidelines** This product, as supplied, does not contain any hazardous materials with occupational

exposure limits established by the region specific regulatory bodies.

Appropriate engineering controls

**Engineering Controls** Showers, eyewash stations, ventilation system.

Individual protection measures, s uch as personal protective equipment

Eye/face protection Splash proof chemical goggles and face shield.

Wear protective Neoprene™ gloves or rubber gloves. Normal work clothing (long sleeved Skin and body protection

shirt and long pants) is recommended. Apron recommended.

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved Respiratory protection

> respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be

provided in accordance with current local regulations.

Wash face, hands and any exposed skin thoroughly after handling. Wash contaminated **General Hygiene Considerations** 

clothing and shoes before reuse. Do not eat, drink or smoke when using this product.

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## **KC-47**

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state Liquid

Appearance Aqueous solution Odor None

Color Clear to pale yellow Odor threshold No information available

 Property
 Values
 Remarks
 • Method

 pH
 10.5
 ±1 @ 21°C

pH 10.5 Melting point/freezing point -6 °C / 21 °F

Boiling point / boiling range
Flash point > 100 °C / > °F
Evaporation rate
Flammability (solid, gas)

No information available
No information available
No information available

Flammability Limit in Air

Upper flammability limit:

Lower flammability limit:

Vapor pressure

Vapor density

No information available
No information available
No information available

Specific Gravity 1.075 g/cc Water solubility Soluble in water

Solubility in other solvents No information available Partition coefficient No information available No information available **Autoignition temperature Decomposition temperature** No information available Kinematic viscosity No information available **Dynamic viscosity** No information available No information available **Explosive properties** No information available Oxidizing properties

**VOC Content (%)** 0.00%

### 10. STABILITY AND REACTIVITY

#### Reactivity

No data available

## **Chemical stability**

Stable under recommended storage conditions.

## Possibility of Hazardous Reactions

None under normal processing.

## **Conditions to avoid**

None known.

## **Incompatible materials**

Acids.

#### **Hazardous Decomposition Products**

None known based on information supplied.

## 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

**Product Information** 

**Inhalation** Inhalation of vapors in high concentration may cause irritation of respiratory system.

**Eye contact** Moderately irritating to the eyes. **Skin Contact** Prolonged contact may cause irritation.

**Ingestion** May be harmful if swallowed. May produce methemoglobin.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Sodium nitrite 7632-00-0	= 85 mg/kg (Rat)	-	= 5.5 mg/L (Rat)4 h
Trade Secret	= 4090 mg/kg (Rat)	-	= 2300 mg/m³ (Rat)2 h

## Information on toxicological effects

**Symptoms** No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization No information available.

Germ cell mutagenicity No information available.

Carcinogenicity Nitrate or nitrite (ingested) has been shown to be carcinogenic only under conditions that

result in endogenous nitrosation.

Chemical Name ACGIH IARC NTP OSHA

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Sodium nitrite - Group 2A - X
7632-00-0

IARC (International Agency for Research on Cancer)

Group 2A - Probably Carcinogenic to Humans

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

Reproductive toxicity
STOT - single exposure
STOT - repeated exposure
Aspiration hazard
No information available.
No information available.
No information available.
No information available.
Product Information

Unknown Acute Toxicity 0% of the mixture consists of ingredient(s) of unknown toxicity

The following values are calculated based on chapter 3.1 of the GHS document

 Oral LD50
 942.00 mg/kg

 Mist
 39.90 mg/l

### 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

Toxic to aquatic life

0% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Sodium nitrite		2.3: 96 h Pimephales promelas mg/L LC50 flow-through	-
7632-00-0		0.4 - 0.6: 96 h Oncorhynchus mykiss mg/L LC50 semi-static	
		0.65 - 1: 96 h Oncorhynchus mykiss mg/L LC50 static	
		20: 96 h Pimephales promelas mg/L LC50 static	
		0.092 - 0.13: 96 h Oncorhynchus mykiss mg/L LC50 flow-through	
		0.19: 96 h Oncorhynchus mykiss mg/L LC50 flow-through	
Trade Secret	242: 120 h Nitzschia	300: 96 h Lepomis macrochirus mg/L LC50 static	265: 48 h Daphnia magna
	mg/L EC50	310 - 1220: 96 h Pimephales promelas mg/L LC50 static	mg/L EC50

## Persistence and degradability

No information available.

Bioaccumulation

Chemical Name	Partition coefficient		
Sodium nitrite - 7632-00-0	-3.7		

### **Mobility**

Soluble in water.

Other adverse effects No information available

## 13. DISPOSAL CONSIDERATIONS

Waste treatment methods

**Disposal of wastes**Disposal should be in accordance with applicable regional, national and local laws and regulations.

**Contaminated packaging** Dispose of in accordance with federal, state and local regulations.

Contaminated packaging Biopoco of in accordance with redoral, state and regulations.					
Chemical Name	California Hazardous Waste Status				
Sodium nitrite - 7632-00-0	Toxic	Reactive			
Trade Secret		Corrosive			

## 14. TRANSPORT INFORMATION

**DOT**Not regulated if shipped in packaging <124 gallons by ground transport

UN/ID No. UN3082

Proper shipping name Other regulated substances, liquid, n.o.s. (contains sodium nitrite)

Hazard Class 9
Packing Group III
Emergency Response Guide Number 171

## 15. REGULATORY INFORMATION

#### **International Inventories**

TSCA Complies
DSL/NDSL Complies
EINECS/ELINCS Complies

<u>Legend:</u>

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

## **US 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

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Chemical Name	SARA 313 - Threshold Values %			
Sodium nitrite - 7632-00-0	1.0			

## SARA 311/312 Hazard Categories

Acute health hazardYesChronic Health HazardNoFire hazardNoSudden release of pressure hazardNoReactive HazardNo

#### **CWA (Clean Water Act)**

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

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Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Sodium nitrite 7632-00-0	100 lb	-	-	Х

### **CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical Name		Hazardous Substances RQs		CERCLA/S	SAPA PO	Reportable Quantity (RQ)
Chemical Name	<del>-</del>	Tiazaruous Substances Nes		CLICLA	ארוא וע	Reportable Qualitity (RQ)
Sodium nitrite		100 lb		-		RQ 100 lb final RQ
7632-00-0						RQ 45.4 kg final RQ

## **US State Regulations**

## **California Proposition 65**

This product does not contain any Proposition 65 chemicals

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Sodium nitrite	X	X	X
7632-00-0			

## **U.S. EPA Label Information**

**EPA Pesticide Registration Number** Not Applicable

16. OTHER INFORMATION							
NFPA	Health hazards	1	Flammability	0	Instability 0		Physical and Chemical Properties None
<u>HMIS</u>	Health hazards	1	Flammability	0	Physical hazards	0	Personal protection B (safety glasses, gloves)

Prepared By Technical Department

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**Revision Note** 

Company Name Update

## <u>Disclaimer</u>

The information provided in this Safety Data Sheet 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The health hazards given on this SDS apply to this product in its concentrated form (as supplied) and may differ significantly at use dilution. The signs and symptoms of exposure apply only to negligence in handling or misuse of the concentrated product and not to the routine exposure of the diluted product under conditions of ordinary use.

**End of Safety Data Sheet**