

SAFETY DATA SHEET

Creation Date 21-Feb-2012

Revision Date 25-Dec-2021

Revision Number 4

1. Identification

Product Name

Iron(II) bromide

Cat No. :

AC388720000; AC388720100; AC388720500

CAS No Synonyms 7789-46-0 Ferrous bromide

Recommended Use Uses advised against Laboratory chemicals. Food, drug, pesticide or biocidal product use.

Details of the supplier of the safety data sheet

<u>Company</u>

Fisher Scientific Company One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100 Acros Organics One Reagent Lane Fair Lawn, NJ 07410

Emergency Telephone Number

For information **US** call: 001-800-ACROS-01 / **Europe** call: +32 14 57 52 11 Emergency Number **US:**001-201-796-7100 / **Europe:** +32 14 57 52 99 **CHEMTREC** Tel. No.**US:**001-800-424-9300 / **Europe:**001-703-527-3887

2. Hazard(s) identification

Classification

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

Skin Corrosion/Irritation Serious Eye Damage/Eye Irritation

Category 1 C Category 1

Label Elements

Signal Word Danger

Hazard Statements

Causes severe skin burns and eye damage Causes serious eye damage



Precautionary Statements

Prevention

Do not breathe dust/fume/gas/mist/vapors/spray

Wash face, hands and any exposed skin thoroughly after handling

Wear protective gloves/protective clothing/eye protection/face protection

Response

Immediately call a POISON CENTER or doctor/physician

Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Skin

Immediately call a POISON CENTER or doctor/physician

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower

Wash contaminated clothing before reuse

Eyes

Immediately call a POISON CENTER or doctor/physician

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

Ingestion

IF SWALLOWED: Rinse mouth. DO NOT induce vomiting

Storage

Store locked up

Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

None identified

3. Composition/Information on Ingredients

nent	CAS No	Weight %				
e (FeBr2)	7789-46-0	>95				
4.	First-aid measures					
	Immediate medical attention is required. Rinse immediately with plenty of water, also ur the eyelids, for at least 15 minutes.					
	Immediate medical attention is required. Wash off immediately with plenty of water for at least 15 minutes.					
air. If breath ingested or i	Immediate medical attention is required. Remove from exposure, lie down. Remove fair. If breathing is difficult, give oxygen. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mequipped with a one-way valve or other proper respiratory medical device.					
Call a physic	Call a physician or poison control center immediately. Do NOT induce vomiting.					
lavage or en	nesis is contraindicated. Possible per	foration of stomach or esophagus should				
	Immediate r the eyelids, Immediate r least 15 min Immediate r air. If breath ingested or equipped wi Call a physic s and Causes burr lavage or en	a (FeBr2) 7789-46-0 4. First-aid measures Immediate medical attention is required. Rinse imit the eyelids, for at least 15 minutes. Immediate medical attention is required. Wash off least 15 minutes. Immediate medical attention is required. Wash off least 15 minutes. Immediate medical attention is required. Remove air. If breathing is difficult, give oxygen. Do not use ingested or inhaled the substance; give artificial reequipped with a one-way valve or other proper res Call a physician or poison control center immediate				

	and danger of perforation									
Notes to Physician	Treat symptomatically									
	5. Fire-fighting	g measures								
Suitable Extinguishing Media	Carbon dioxide (CO 2). Dry c	hemical. Chemical foam.								
Unsuitable Extinguishing Media	No information available									
Flash Point Method -										
Autoignition Temperature Explosion Limits Upper	No information available No data available									
Lower Sensitivity to Mechanical Impac Sensitivity to Static Discharge	No data available t No information available No information available									
Specific Hazards Arising from the C Thermal decomposition can lead to re		apors.								
Hazardous Combustion Products Hydrogen halides. Protective Equipment and Precaution As in any fire, wear self-contained brea protective gear.	ons for Firefighters athing apparatus pressure-de	mand, MSHA/NIOSH (approv	red or equivalent) and full							
NFPA Health 3	Flammability 0	Instability 1	Physical hazards N/A							
	6. Accidental rele	ease measures								
Personal Precautions Environmental Precautions	Avoid contact with skin and a adequate ventilation. Avoid a Should not be released into	dust formation.	e equipment as required. Ensure							
Methods for Containment and Clear Up	Sweep up and shovel into su environment. Avoid dust forr		I. Do not let this chemical enter the							
	7. Handling a	3								
Handling	only in closed system or pro-	vide appropriate exhaust ven	not breathe dust. Handle product tilation. Do not get in eyes, on immediate medical assistance.							
Storage.			ner tightly closed. Corrosives terials. Strong oxidizing agents.							
	kposure controls /	personal protection	on							
Exposure Guidelines		n any hazardous materials w								

Component	nt ACGIH TLV OSHA PI		NIOSH IDLH	Mexico OEL (TWA)	
Iron bromide (FeBr2)	TWA: 1 mg/m ³	(Vacated) TWA: 1 mg/m ³	TWA: 1 mg/m ³	TWA: 1 mg/m ³	

<u>Legend</u>

ACGIH - American Conference of Governmental Industrial Hygienists OSHA - Occupational Safety and Health Administration NIOSH IDLH: NIOSH - National Institute for Occupational Safety and Health

Engineering Measures	Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.
Personal Protective Equipment	
Eye/face Protection	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.
Respiratory Protection	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

7.111931	cal and chemical properties
Physical State	Solid
Appearance	Dark yellow
Odor	No information available
Odor Threshold	No information available
рН	No information available
Melting Point/Range	684 °C / 1263.2 °F
Boiling Point/Range	937 °C / 1718.6 °F @ 760 mmHg
Flash Point	No information available
Evaporation Rate	Not applicable
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	No information available
Vapor Density	Not applicable
Specific Gravity	No information available
Solubility	Soluble in water
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	No information available
Decomposition Temperature	No information available
Viscosity	Not applicable
Molecular Formula	Br2 Fe
Molecular Weight	215.65

10. Stability and reactivity

Reactive Hazard	None known, based on information available
Stability	Hygroscopic. Air sensitive.
Conditions to Avoid	Incompatible products. Exposure to moist air or water. Exposure to air.
Incompatible Materials	Strong oxidizing agents, Strong acids
Hazardous Decomposition Product	s Hydrogen halides

Hazardous Polymerization	Hazardous polyme	rization does not	occur.				
Hazardous Reactions	None under normal processing.						
	11 Toxico	logical info	ormation				
Acute Toxicity		nogical init	Simation				
Product Information	No acute toxicity in	formation is availa	able for this produc	ot			
Component Information Toxicologically Synergistic Products	No information ava	ilable					
Delayed and immediate effects as	well as chronic effe	cts from short ar	nd long-term expo	osure			
rritation	Causes burns by a	II exposure routes	3				
Sensitization	No information ava	ilable					
Carcinogenicity	The table below inc	dicates whether e	ach agency has lis	ted any ingredient	as a carcinoger		
Component CAS No	IARC	NTP	ACGIH	OSHA	Mexico		
Iron bromide (FeBr2) 7789-46-0	Not listed	Not listed	Not listed	Not listed	Not listed		
Mutagenic Effects	No information ava	ilable					
Reproductive Effects	No information ava	ilable.					
Developmental Effects	No information available.						
Teratogenicity	No information available.						
STOT - single exposure STOT - repeated exposure	None known None known						
Aspiration hazard	No information available						
Symptoms / effects,both acute an delayed	d Product is a corros Possible perforatio severe swelling, se	n of stomach or e	sophagus should b	e investigated: Ing	estion causes		
Endocrine Disruptor Information	No information available						
Other Adverse Effects	The toxicological p	roperties have no	t been fully investi	gated.			
	12. Ecolo	ogical infor	mation				
<u>Ecotoxicity</u> Do not empty into drains.							
Persistence and Degradability	Soluble in water Persistence is unlikely based on information available.						
Bioaccumulation/ Accumulation No information available.							
Mobility	Will likely be mobile	e in the environme	ent due to its water	solubility.			
	13. Dispo	sal conside	erations				
Waste Disposal Methods	Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.						

Revision Date 25-Dec-2021

Iron(II) bromide

DOT UN-No Proper Shipping Name Technical Name Hazard Class Packing Group	UN3260 Corrosive solid, acidic, inorganic, n.o.s. (IRON (II) BROMIDE) 8 III
_ TDG_	
UN-No	UN3260
Proper Shipping Name	Corrosive solid, acidic, inorganic, n.o.s.
Hazard Class	8
Packing Group	III
<u>IATA</u>	
UN-No	UN3260
Proper Shipping Name	CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.*
Hazard Class	8
Packing Group	III
IMDG/IMO	
UN-No	UN3260
Proper Shipping Name	Corrosive solid, acidic, inorganic, n.o.s.
Hazard Class	8
Packing Group	
	15. Regulatory information

United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
Iron bromide (FeBr2)	7789-46-0	Х	ACTIVE	-

Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710) X - Listed

'-' - Not Listed

TSCA 12(b) - Notices of Export Not applicable

International Inventories Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
Iron bromide (FeBr2)	7789-46-0	-	Х	232-168-8	-	-		-	-	KE-21084

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

U.S. Federal Regulations

SARA 313	Not applicable
SARA 311/312 Hazard Categories	See section 2 for more information
CWA (Clean Water Act)	Not applicable
Clean Air Act	Not applicable
OSHA - Occupational Safety and Health Administration	Not applicable
CERCLA	Not applicable

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Iron bromide (FeBr2)	-	-	Х	-	Х
· · · · · · · · · · · · · · · · · · ·					
U.S. Department of Trans	sportation				
Reportable Quantity (RQ):	N N				
DOT Marine Pollutant	N				
DOT Severe Marine Pollut	tant N				
U.S. Department of Hom	eland This pro	duct does not conta	in any DHS chemicals.		
Security			in any Drie chemicals.		
Other International Regu	ulations				
Mexico - Grade	No infor	mation available			

Authorisation/Restrictions according to EU REACH

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

Not applicable

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
Iron bromide (FeBr2)	7789-46-0	Not applicable	Not applicable	Not applicable	Not applicable
Commonant	CACNE			Dettenden	Decel Convention

Component	CAS No	Seveso III Directive	Seveso III Directive	Rotterdam	Basel Convention
-		(2012/18/EC) -	(2012/18/EC) -	Convention (PIC)	(Hazardous Waste)
		Qualifying Quantities	Qualifying Quantities		-
		for Major Accident	for Safety Report		
		Notification	Requirements		
Iron bromide (FeBr2)	7789-46-0	Not applicable	Not applicable	Not applicable	Not applicable

16. Other information				
Prepared By	Regulatory Affairs			
	Thermo Fisher Scientific			
	Email: EMSDS.RA@thermofisher.com			
Creation Date	21-Feb-2012			
Revision Date	25-Dec-2021			
Print Date	25-Dec-2021			
Revision Summary	This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).			

Disclaimer

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 information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of SDS