

SAFETY DATA SHEET

Creation Date 08-Mar-2012

Revision Date 19-Jan-2018

Revision Number 7

1. Identification

AC175260000; AC175260025; AC175260100

Product Name 3-Bromofuran

Cat No. :

CAS-No Synonyms 22037-28-1 No information available

Recommended Use Uses advised against Laboratory chemicals. Not for food, drug, pesticide or biocidal product use

Details of the supplier of the safety data sheet

<u>Company</u> Fisher Scientific 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)

Flammable liquids	Category 2
Skin Corrosion/irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2
Specific target organ toxicity (single exposure)	Category 3
Target Organs - Respiratory system.	0,

Label Elements

Signal Word Danger

Hazard Statements

Highly flammable liquid and vapor Causes skin irritation Causes serious eye irritation May cause respiratory irritation



Precautionary Statements Prevention

Wash face, hands and any exposed skin thoroughly after handling Wear protective gloves/protective clothing/eye protection/face protection Avoid breathing dust/fume/gas/mist/vapors/sprav Use only outdoors or in a well-ventilated area Keep away from heat/sparks/open flames/hot surfaces. - No smoking Keep container tightly closed Ground/bond container and receiving equipment Use explosion-proof electrical/ventilating/lighting/equipment Use only non-sparking tools Take precautionary measures against static discharge Keep cool Inhalation IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Call a POISON CENTER or doctor/physician if you feel unwell Skin If skin irritation occurs: Get medical advice/attention IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower Wash contaminated clothing before reuse **Eves** 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 Fire In case of fire: Use CO2, dry chemical, or foam for extinction Storage Store in a well-ventilated place. Keep container tightly closed 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

Compor	nent	CAS-No	Weight %			
3-Bromof	uran	22037-28-1	>95			
						
	4.	First-aid measures				
General Advice	If symptoms	persist, call a physician.				
Eye Contact	ye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.					
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician.					
Inhalation	Move to fresh	n air. If not breathing, give artificial re	spiration. Get medical attention if			

	symptoms occur.
Ingestion	Clean mouth with water and drink afterwards plenty of water.
Most important symptoms and effects Notes to Physician	None reasonably foreseeable. Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting Treat symptomatically
	5. Fire-fighting measures
Suitable Extinguishing Media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Cool closed containers exposed to fire with water spray.
Unsuitable Extinguishing Media	No information available
Flash Point	3 °C / 37.4 °F
Method -	No information available
Autoignition Temperature Explosion Limits	No information available
Upper Lower Sensitivity to Mechanical Impac Sensitivity to Static Discharge	

Specific Hazards Arising from the Chemical

Extremely flammable. Keep product and empty container away from heat and sources of ignition. Thermal decomposition can lead to release of irritating gases and vapors. Containers may explode when heated. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back.

Hazardous Combustion Products

Carbon monoxide (CO) Carbon dioxide (CO₂) Hydrogen halides

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.

Health 2	Flammability 3	Instability 1	Physical hazards N/A		
	6. Accidental re	lease measures			
Personal Precautions		uipment. Ensure adequate ven y measures against static disch			
Environmental Precautions	Should not be released into				
Methods for Containment and C Up		ntainers for disposal. Soak up v tion. Use spark-proof tools and			

	7. Handling and storage
Handling	Wear personal protective equipment. Ensure adequate ventilation. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation. Keep away from open flames, hot surfaces and sources of ignition. Use only non-sparking tools. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Take precautionary measures against static discharges.
Storage	Keep away from heat and sources of ignition. Keep container tightly closed in a dry and well-ventilated place. Protect from light. To maintain product quality: Store in freezer.

8. E	xposure controls / personal protection
Exposure Guidelines	This product does not contain any hazardous materials with occupational exposure limitsestablished by the region specific regulatory bodies.
Engineering Measures	Use explosion-proof electrical/ventilating/lighting/equipment. Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation, especially in confined areas.
Personal Protective Equipment	
Eye/face Protection	Tightly fitting safety goggles. Face-shield.
Skin and body protection	Long sleeved clothing.
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. Physica	al and chemical properties
Physical State	Liquid
Appearance	Yellow
Odor	No information available
Odor Threshold	No information available
рН	No information available
Melting Point/Range	No data available
Boiling Point/Range	103 °C / 217.4 °F @ 750 mmHg
Flash Point	3 °C / 37.4 °F
Evaporation Rate	No information available
Flammability (solid,gas)	Not applicable
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	No information available
Vapor Density	5.1
Specific Gravity	1.635
Solubility	No information available
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	No information available
Decomposition Temperature	No information available
Viscosity	No information available
Molecular Formula	C4 H3 Br O
Molecular Weight	146.97
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10. Stability and reactivity

Reactive Hazard	None known, based on information available
Stability	Light sensitive.
Conditions to Avoid	Incompatible products. Excess heat. Keep away from open flames, hot surfaces and sources of ignition. Exposure to light.
Incompatible Materials	Strong oxidizing agents

Hazardous Decomp	osition Products	s Carbon monoxide	(CO), Carbon dio>	kide (CO2), Hydroge	en halides		
Hazardous Polymer	ization	Hazardous polymerization does not occur.					
Hazardous Reaction	ns	None under normal processing.					
		11. Toxico	ological info	ormation			
Acute Toxicity							
Product InformationNo acute toxicity information is available for this productComponent InformationNo information availableToxicologically SynergisticNo information availableProductsNo information available							
Delayed and immed	liate effects as w	ell as chronic effe	cts from short ar	id long-term expo	sure		
Irritation		Irritating to eyes ar	nd skin May cause	irritation of respira	itory tract		
Sensitization		No information ava	ailable				
Carcinogenicity		The table below inc	dicates whether e	ach agency has list	ed any ingredient a	as a carcinogen.	
Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico	
3-Bromofuran	22037-28-1	Not listed	Not listed	Not listed	Not listed	Not listed	
Mutagenic Effects		No information ava	ailable				
Reproductive Effect	ts	No information ava	ailable.				
Developmental Effe	cts	No information ava	ailable.				
Teratogenicity		No information ava	ailable.				
STOT - single exposision STOT - repeated ex		Respiratory system None known	n				
Aspiration hazard		No information ava	ailable				
Symptoms / effects delayed	,both acute and	d Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting					
Endocrine Disrupto	tor Information						
Other Adverse Effe	cts	The toxicological properties have not been fully investigated.					
12. Ecological information							
<u>Ecotoxicity</u> Do not empty into dra	ains.						
Persistence and De	gradability	No information available					
Bioaccumulation/ A	ccumulation	No information available.					
Mobility		No information ava	ailable.				
		13. Dispo	sal conside	erations			
Waste Disposal Met	thods	Chemical waste ge hazardous waste. national hazardous	enerators must de Chemical waste g	termine whether a generators must als	so consult local, reg	jional, and	

14. Transport information						
DOT						
UN-No	UN1993					
Proper Shipping Name	FLAMMABLE LIQUIDS, N.O.S.					
Proper technical name	(3-Bromofuran)					
Hazard Class	3					
Packing Group	II					
TDG						
UN-No	UN1993					
Proper Shipping Name	FLAMMABLE LIQUIDS, N.O.S.					
Hazard Class	3					
Packing Group	II					
UN-No	1993					
Proper Shipping Name	FLAMMABLE LIQUID, N.O.S.*					
Hazard Class	3					
Packing Group	II					
IMDG/IMO						
UN-No	1993					
Proper Shipping Name	Flammable liquid, n.o.s.					
Hazard Class	3					
Packing Group						
	15. Regulatory information					

All of the components in the product are on the following Inventory lists: X = listed

International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
3-Bromofuran	-	-	-	244-744-6	-		-	-	-	-	-
Lawawala											

Legend: X - Listed

E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.

F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.

N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated

polymer made with any free-radical initiator regardless of the amount used. P - Indicates a commenced PMN substance

R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.

S - Indicates a substance that is identified in a proposed or final Significant New Use Rule

T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.

XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).

Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.

Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

U.S. Federal Regulations

TSCA 12(b)	Not applicable
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	Not applicable

U.S. Department of Transportation

Reportable Quantity (RQ):	Ν
DOT Marine Pollutant	Ν
DOT Severe Marine Pollutant	N

U.S. Department of Homeland Security

This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade

Serious risk, Grade 3

	16. Other information
Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com
Creation Date Revision Date Print Date Revision Summary	08-Mar-2012 19-Jan-2018 19-Jan-2018 SDS sections updated. 2. 7. 11.

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