Honeywell

Boron Trifluoride

)198495	Povision Data 10/05/2022	Print Data 11/01/20
rsion 3.1	Revision Date 10/05/2023	Print Date 11/01/20
CTION 1. IDENTIFICATION		
Product name	: Boron Trifluoride	
Number	: 00000000197	
Product Use Description	: Catalyst, Chemical-technical application	
Manufacturer or supplier's details	: Honeywell International Inc. 115 Tabor Road Morris Plains, NJ 07950-2546	
For more information call	: 800-522-8001 +1-973-455-6300(Monday-Friday, 9:00ar	m-5:00pm)
In case of emergency call	: Medical: 1-800-498-5701 or +1-303-389	
	: Transportation (CHEMTREC): 1-800-42 527-3887	
CTION 2. HAZARDS IDENTIFI	527-3887 : (24 hours/day, 7 days/week)	
Emergency Overview	527-3887 : : (24 hours/day, 7 days/week) CATION	
	527-3887 : (24 hours/day, 7 days/week)	
Emergency Overview Form	527-3887 : (24 hours/day, 7 days/week) CATION : Compressed gas : Clear in an inert atmosphere. Forms a d	lense white cloud
Emergency Overview Form Color	 527-3887 (24 hours/day, 7 days/week) CATION Compressed gas Clear in an inert atmosphere. Forms a d when exposed to moisture. Pungent odor with a stinging effect on e 	lense white cloud
Emergency Overview Form Color Odor	 527-3887 (24 hours/day, 7 days/week) CATION Compressed gas Clear in an inert atmosphere. Forms a d when exposed to moisture. Pungent odor with a stinging effect on e 	dense white cloud eyes and skin.

SAFETY DATA SHEET Honeywell **Boron Trifluoride** 10198495 Version 3.1 Revision Date 10/05/2023 Print Date 11/01/2023 Kidney Simple Asphyxiant GHS Label elements, including precautionary statements Symbol(s) Signal word : Danger Hazard statements : Contains gas under pressure; may explode if heated. Causes severe skin burns and eye damage. Fatal if inhaled. May cause respiratory irritation. May cause damage to organs through prolonged or repeated exposure. May displace oxygen and cause rapid suffocation. Precautionary statements : Prevention: Wash skin thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/ protective clothing/ eye protection/ face protection. Wear respiratory protection. **Response:** IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor. Specific treatment is urgent (see supplemental first aid instructions on this label). Wash contaminated clothing before reuse. Storage: Store in a well-ventilated place. Keep container tightly closed. Store locked up. Page 2 / 13

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	Prote	ect from sunlight.	
		osal: ose of contents/ container to an a t.	approved waste disposal
Carcinogenicity			
No component of this pro or anticipated carcinoge		levels greater than or equal to 0. or OSHA.	1% is identified as a knowr
CTION 3. COMPOSITION	I/INFORMATIO	N ON INGREDIENTS	
Synonyms	: BF3, ⁻	Frifluoroborane (NIOSH), Boron F	luoride
Formula	: BF3		
Chemical nature	: Subs	tance	
Chem	iical name	CAS-No.	Concentration
Boron trifluoride		7637-07-2	100.00 %
CTION 4. FIRST AID ME	ASURES		
Inhalation	admin oxyge	to fresh air. If breathing is irregula ister artificial respiration. If breath n. Use oxygen as required, provid sent. Call a physician immediately	ing is difficult, give ded a qualified operator
Skin contact	for at I and sh	e of contact, immediately flush sk east 15 minutes while removing o loes. Wash contaminated clothing ninated shoes. Call a physician in	contaminated clothing g before re-use. Discard
Eye contact	for at I	immediately with plenty of water, east 15 minutes. Keep eye wide iician immediately.	
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Ingestion	:	Unlikely route of exposure. Do not giv a physician immediately.	e anything by mouth. Call
Notes to physician			
Indication of immediate medical attention and special treatment needed, if necessary	:	Treat as a corrosive acid. Boron Triflu Boric and Fluoroboric acid (strong cor fluoride ions under extreme conditions fluoride toxicity, hypocalcemia, and hy exposure is severe.	rosive acids). May form s. Consider treatment for
CTION 5. FIREFIGHTING MEA	s	JRES	
Suitable extinguishing media		: Fog type spray to knock down fumes	and particulates.
Specific hazards during firefighting		Contents under pressure. This product is not flammable at amb atmospheric pressure.	pient temperatures and
Special protective equipment for firefighters		: Wear self-contained breathing appar	atus and protective suit.
Further information		: Use water spray to cool fire exposed	tanks and containers.
CTION 6. ACCIDENTAL RELE	AS	E MEASURES	
Personal precautions, protective equipment and emergency procedures	:	Immediately evacuate personnel to sa Keep people away from and upwind o Wear personal protective equipment. Ventilate the area. Unprotected personnel should not retu- tested and determined safe. Do not swallow. Do not breathe vapours, mist or gas. Do not get in eyes, on skin, or on cloth	of spill/leak. urn until air has been
	:	Prevent further leakage or spillage if s Do not flush into surface water or san	
Environmental precautions		Retain and dispose of contaminated v	

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		Do not allow run-off from fire fighting courses.	to enter drains or water
Methods and materials for containment and cleaning up	:	In case of leakage from BF3 cylinder may be used or the cylinder may be water. Water sprays should be direct source as possible but not directly or cause more corrosion. The volume of sink and control the exothermic react excess of water for absorbing the BF place a water hose in the drum to may water to assist absorption, keep the acidity and corrosion by dilution. The water must be contained for ultimate accordance with applicable environm	inverted into a drum of ted to as close to the in the leak as this may of water will act as a heat tion while providing a large 3. It is also advisable to aintain a constant flow of container cool, and reduce a contaminated acidic treatment and disposal in
		Releases of BF3 to the atmosphere of cloud. Because of the very rapid real and water, water sprays are very effective. Water sprays should be direct of the leak as possible. Because of the hydrates and their hydrolysis product leak source should be avoided as co- of the leak site may result.	action rate between BF3 ective in mitigating the ed as close to the source he acidic nature of BF3 ts, direct contact with the
		However, if large quantities of water from a fire hose with a coarse fog no be directed at the source to serve as coolant. As a reminder, all the possik hydrate(s), ionized BF3 hydrate(s), h fluoroboric acid – are strong acids ar containment or treatment facility to b accordance with applicable environm also contained combined fluoride wh human tissue if contacted in any sign	zzle, the coarse spray can both a diluent and ble species present – BF3 ydroxyfluoborate, and nd must be directed to a e ultimately disposed of in nental regulations. They ich could eventually affect
CTION 7. HANDLING AND S Handling	TOF	AGE	
-			
Precautions for safe handling	:	Wear personal protective equipment Use only with adequate ventilation.	
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sion 3.1		Revision Date 10/05/2023	Print Date 11/01/20
		Follow all standard safety precautions compressed gas cylinders. Do not drop or bang cylinders togethe chill cylinders below -20°F (-29°C). Do BF3 cylinder.	er. Do not apply heat or
		Wash thoroughly after handling. Do not swallow. Do not breathe vapours or spray mist Do not get in eyes, on skin, or on clot	
Advice on protection against fire and explosion	:	Normal measures for preventive fire p	protection.
Storage			
Conditions for safe storage, including any incompatibilities	:	Keep containers tightly closed in a dry place. Keep away from direct sunlight. Protect from atmospheric moisture an Protect cylinders from physical damag Store away from incompatible substan	nd water. ge.
	ROL	-S/PERSONAL PROTECTION	fety showers are close to
CTION 8. EXPOSURE CONTR Protective measures	ROL :	-S/PERSONAL PROTECTION Ensure that eyewash stations and saf the workstation location.	fety showers are close to
	ROL :	Ensure that eyewash stations and saf	fety showers are close to
Protective measures	ROL : :	Ensure that eyewash stations and saf the workstation location.	
Protective measures Engineering measures	ROL : :	Ensure that eyewash stations and saf the workstation location. Use with local exhaust ventilation. Wear as appropriate:	ete protection to eyes
Protective measures Engineering measures Eye protection	ROL : : :	Ensure that eyewash stations and safe the workstation location. Use with local exhaust ventilation. Wear as appropriate: Goggles or face shield, giving comple PVC disposable gloves Neoprene gloves Gloves must be inspected prior to use	ete protection to eyes
Protective measures Engineering measures Eye protection Hand protection	ROL : : :	Ensure that eyewash stations and safe the workstation location. Use with local exhaust ventilation. Wear as appropriate: Goggles or face shield, giving complet PVC disposable gloves Neoprene gloves Gloves must be inspected prior to use Replace when worn.	ete protection to eyes e.

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	I		10/00/2020			52
Exposure Guidelir	ies					
Components	CAS-No.	Value	Control	Upda	Basis	1
			parameters	te		
Porop trifluorido	7627 07 2	Τ \Λ/Λ ·	(0.1 ppm)	02		

			parameters	te	
Boron trifluoride	7637-07-2	TWA : Time weighted average	(0.1 ppm)	03 2016	ACGIH:US. ACGIH Threshold Limit Values, as amended
Boron trifluoride	7637-07-2	Ceiling : Ceiling Limit Value:	(0.7 ppm)	03 2016	ACGIH:US. ACGIH Threshold Limit Values, as amended
Boron trifluoride	7637-07-2	Ceil_Tim e : Ceiling Limit Value and Time Period (if specified) :	3 mg/m3 (1 ppm)	2005	NIOSH/GUIDE:US. NIOSH: Pocket Guide to Chemical Hazards, as amended
Boron trifluoride	7637-07-2	Ceiling : Ceiling Limit Value:	3 mg/m3 (1 ppm)	02 2006	OSHA_TRANS:US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended
Boron trifluoride	7637-07-2	Ceiling : Ceiling Limit Value:	3 mg/m3 (1 ppm)	1989	Z1A:US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
Boron trifluoride	7637-07-2	TWA : Time weighted average	2.5 mg/m3	02 2006	OSHA/Z2:US. OSHA Table Z-2 (29 CFR 1910.1000), as amended
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Further : Form of ex information	kposure : Dust.
ECTION 9. PHYSICAL AND CHE Physical state	EMICAL PROPERTIES : Compressed gas
Color	 Clear in an inert atmosphere. Forms a dense white cloud when exposed to moisture.
Odor	: Pungent odor with a stinging effect on eyes and skin.
рН	: Note: not determined
Melting point/range	: -128.4 °C
Boiling point/boiling range	: -100 °C at 1,013 hPa
Flash point	: Note: Not applicable
Lower flammability limit	: Note: Not applicable
Upper flammability limit	: Note: Not applicable
Vapor pressure	: Note: No data available
Vapor density	: 2.34 Note: (Air = 1.0)
Water solubility	: 77 g/l
	Note: hydrolyses
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Partition coefficient: n- octanol/water : Note: No data available Ignition temperature : Note: Not applicable Molecular weight : 67.81 g/mol CTION 10. STABILITY AND REACTIVITY Reactivity : Not classified as a reactivity hazard. Chemical stability : Stable under normal conditions. Possibility of hazardous reactions : Hazardous polymerisation does not occur. Conditions to avoid : Protect from extreme heat and cold. Keep away from direct sunlight. Incompatible materials : Polymerizable materials, water, alkali metals, alkaline metals except magnesium, alkyl nitrates. Hazardous decomposition products : Vapor reacts rapidly with water in the air to form BF3 hydrates. Reaction with excess water forms fluoroboric strong acid), boric acid and hydroxy fluoroboric acids.	98495 ion 3.1	Povision Data 10/05/2022	Print Date 11/01/2
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Acute inhalation toxicity : LC50: 1.21 mg/l , gas Exposure time: 4 h		hydrates. Reaction with excess water	r forms fluoroboric acid (a
Method: OECD Test Guideline 403		: LC50: 1.21 mg/l , gas Exposure time: 4 h Species: Rat, male and female	
Skin irritation : Result: Causes severe burns.	Ohio initation	: Result: Causes severe burns.	
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		Classification: Corrosive	
Eye irritati	ion	: Result: Risk of serious damage to e Classification: Corrosive	eyes.
Repeated	dose toxicity	: Species: Rat, male and female Application Route: inhalation (gas) Exposure time: 13 Weeks NOAEL (No observed adverse effect LOAEL (Lowest observed adverse effect Target Organs: Kidney	
Genotoxic	city in vitro	: Test Method: Ames test Result: Not active up to 100% v/v w	vith or without S9.
	ECOLOGICAL II		
Further ir Additional	nformation on e	cology : We have no quantitative data conce	erning the ecological
Further ir	nformation on e	cology	erning the ecological
Further in Additional informatio	nformation on e	cology : We have no quantitative data conce effects of this product.	erning the ecological
Further in Additional informatio	nformation on en l ecological n DISPOSAL CON	cology : We have no quantitative data conce effects of this product.	
Further in Additional informatio ECTION 13.	nformation on en l ecological n DISPOSAL CON	 cology We have no quantitative data concerences effects of this product. ISIDERATIONS Observe all Federal, State, and Loc regulations. 	
Further in Additional informatio ECTION 13.	nformation on en l ecological on DISPOSAL CON methods	cology : We have no quantitative data concerence effects of this product. ISIDERATIONS : Observe all Federal, State, and Loc regulations. IFORMATION : UN 1008 ig name : BORON TRIFLUORIDE	al Environmental

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rsion 3.1		Povision [Date 10/05/2023	Print Date 11/01/202
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	Class Packing group		2.3	
	Hazard Labels		2.3 (8)	
ΙΑΤΑ	UN/ID No.		UN 1008	
	Class		2.3 Not permitted for transpo	ort
IMDG	UN/ID No.	:	UN 1008	
	Description of the	goods :	BORON TRIFLUORIDE	
	Class Hazard Labels		2.3 2.3 (8)	
	EmS Number Marine pollutant		F-C, S-U no	
CTION 15.	REGULATORY IN	ORMATION		
Inventorio	es			
US. Toxic Control Ac	Substances ct	: On TSCA Inv	ventory	
	Inventory of Chemicals (AIIC), ed	: On the inven	tory, or in compliance wi	th the inventory
Act (CEPA	Canadian ental Protection A). Domestic es List (DSL)	: All compone	nts of this product are on	the Canadian DSL
Japan. Ka List	shin-Hou Law	: On the inven	tory, or in compliance wi	th the inventory
Korea. Ex Inventory	isting Chemicals (KECI)	: On the inven	tory, or in compliance wi	th the inventory
Chemicals	s. Inventory of and Chemical es (PICCS)	: On the inven	tory, or in compliance wi	th the inventory
China. Inv	entory of Existing	: On the inven	tory, or in compliance wi	th the inventory
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Chemical Substances (IECSC)			
New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand	:	On the inventory, or in compliance wit	h the inventory
Taiwan Chemical Substance Inventory (TCSI)	:	On the inventory, or in compliance wit	h the inventory
National regulatory informa	atio	on	
US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 302 Extremely Hazardous Substance (40		The following component(s) of this pro emergency planning provisions of 40 (amounts equal to or greater than the 7 Quantity (TPQ):	CFR 355 when there are
CFR 355, Appendix A) SARA III		Reportable quantity:: 500 lbs	
	:	Boron trifluoride 7	637-07-2
SARA 302 Components		The following components are subject established by SARA Title III, Section Boron trifluoride 7	
SARA 313 Components		The following components are subject established by SARA Title III, Section Boron trifluoride 7	
SARA 311/312 Hazards	:	Sudden Release of Pressure Hazard Acute Health Hazard Chronic Health Hazard	
California Prop. 65	:	This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.	
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Massachusetts RTK	: Boron trifluoride	7637-07-2
New Jersey RTK	: Boron trifluoride	7637-07-2
Pennsylvania RTK	: Boron trifluoride	7637-07-2

SECTION 16. OTHER INFORMATION

	HMIS III	NFPA
Health hazard	: 3	4
Flammability	: 0	0
Physical Hazard	: 1	
Instability	:	1

Hazard rating and rating systems (e.g. HMIS® III, NFPA): This information is intended solely for the use of individuals trained in the particular system.

Further information

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. Final determination of suitability of any material is the sole responsibility of the user. This information should not constitute a guarantee for any specific product properties.

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

Previous Issue Date: 10/11/2018

Prepared by Honeywell Performance Materials and Technologies Product Stewardship Group

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