An ISO 9001 : 2015 & GMP Certified Company 101, Aarkay Ruby Industrial Estate (1B), Opp Shree Narayan Industrial Estate, Chinchpada, Vasai East, Waliv, Maharashtra 401208. Tel : + 91 98200 41841 Email : <u>info@ottokemi.com</u> Web : <u>www.ottokemi.com</u>

### MATERIAL SAFETY DATA SHEET (MSDS)

### **SECTION 1. Product identifiers**

Product name: Dibutylboryl trifluoromethanesulphonate solution, 1.0 M in methylene chloride Product Code: D 1464 CAS No : 60669-69-4

1.2. Relevant identified uses of the substance or mixture and uses advised against Use : Industrial. For professional use only.

1.3. Details of the supplier of the safety data sheet
Company identification
OTTO CHEMIE PVT LTD
101, Aarkay Ruby Industrial Estate(1B), Opp Shree Narayan Industrial Estate, Chinchpada, Vasai East, Waliv, Maharashtra 401208.
Email info@ottokemi.com

1.4. Emergency telephone number Phone no. : + 91 22 2207 0099 (9:00am - 6:00 pm)

#### **SECTION 2: Hazards identification**

2.1 Classification of the substance or mixture Flammable liquids, (Category 3) H226: Flammable liquid and vapor. Skin corrosion, (Sub-category H314: Causes severe skin burns and eye 1B) damage. H318: Causes serious eye damage. Serious eye damage, (Category 1) H351: Suspected of causing cancer. Carcinogenicity, (Category 2) Specific target organ toxicity H336: May cause drowsiness or dizziness single exposure, (Category 3), Central nervous system 2.2 Label elements Labelling according Regulation (EC) No 1272/2008 Pictogram Signal Word Danger Hazard Statements H226 Flammable liquid and vapor. Causes severe skin burns and eye damage. H314 H336 May cause drowsiness or dizziness. Suspected of causing cancer. H351 **Precautionary Statements** P202 Do not handle until all safety precautions have been read and understood P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Supplemental Hazard none Statements Reduced Labeling (<= 125 ml) Pictogram Signal Word Danger Hazard Statements

#### DISCLAIMER

Otto Chemie Pvt Ltd - products are only for laboratory use only. Not for drug, medicinal, household or any other use. No liability accepted for mishandling in use - please test before use

Otto Chemie Pvt Ltd - shall not be responsible for any damage resulting from handling or from contact with the above product.

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H351       Suspected of causing cancer.         H314       Causes severe skin burns and eye damage.         Precautionary Statements       Do not handle until all safety precautions have been read and understood.         P202       Do not handle until all safety precautions have been read and understood.         P303 + P361 + P353       IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.         P304 + P340 + P310       IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.         P305 + P351 + P338       IF IN EYES: Rinse cautiously with water or several minutes.         Supplemental Hazard       none         Statements       2.3 Other hazards         This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.         Ecological information:       The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2018/605 at levels of 0.1% or higher.         Toxicological information:       The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2018/605 at levels of 0.1% or higher.         SectION 3: Composition/Information on ingredients       3.2 Mixtures					
Precautionary Statements P202 P200 Do not handle until all safety precautions have been read and understood. P200 P200 P200 P200 P303 + P361 + P353 P304 + P340 + P310 P305 + P351 + P338 Supplemental Hazard Statements 2.3 Other hazards This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher. Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher. SECTION 3: Composition/information on ingredients					
P202       Do not handle until all safety precautions have been read and understood.         P280       Wear protective gloves/ protective clothing/ eye protection/ face protection.         P303 + P361 + P353       IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.         P304 + P340 + P310       IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.         P305 + P351 + P338       IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.         Supplemental Hazard       none         Statements       none         2.3 Other hazards       none         This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.         Ecological information:       The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.         Toxicological information:       The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.         SECTION 3: Composition/information on ingredients		Causes severe skin burns and eye damage.			
P280       understood.         P303 + P361 + P353       Wear protective gloves/ protective clothing/ eye protection/ face protection.         P304 + P340 + P310       IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.         P305 + P351 + P338       IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.         P305 + P351 + P338       IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.         Supplemental Hazard       none         Statements       2.3 Other hazards         This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.         Ecological information:       The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.         The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.         SECTION 3: Composition/information on ingredients					
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P304 + P340 + P310       IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.         P305 + P351 + P338       IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.         Supplemental Hazard       none         Statements       2.3 Other hazards         This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.         Ecological information:       The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.         Toxicological information:       The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.         Toxicological information:       The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.         SECTION 3: Composition/information on ingredients	P303 + P361 + P353				
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	SECTION 3: Composition/information on ingredients				

3.2 Mixtures Synonyms : Dibutylboron triflatesolution Formula : C9H18BF3O3S Molecular weight : 274,11 g/mol

Component	Classification	Concentration
Dibutyl{[(trifluoromethyl)sulfonyl]oxy}borane		
CAS-No. 60669-69-4	Skin Corr. 1 <mark>B; E</mark> ye Dam. 1; H314, H318	>= 20 - < 30 %
EC-No. 612-008-7		

\*A registration number is not available for this substance as the substance or its use are exempted from registration according to Article 2 REACH Regulation (EC) No 1907/2006, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

For the full text of the H-Statements mentioned in this Section, see Section 16.

## **SECTION 4: First aid measures**

4.1 Description of first-aid measures
General advice
First aiders need to protect themselves. Show this material safety data sheet to the doctor in attendance.
If inhaled
After inhalation: fresh air. Call in physician.
In case of skin contact
In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. Call a physician immediately.
In case of eye contact
After eye contact: rinse out with plenty of water. Immediately call in ophthalmologist.
Remove contact lenses.
If swallowed

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Otto Chemie Pvt Ltd - provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product

An ISO 9001 : 2015 & GMP Certified Company 101, Aarkay Ruby Industrial Estate (1B), Opp Shree Narayan Industrial Estate, Chinchpada, Vasai East, Waliv, Maharashtra 401208. Tel : + 91 98200 41841 Email : info@ottokemi.com Web : www.ottokemi.com

After swallowing: make victim drink water (two glasses at most), avoid vomiting (risk of perforation). Call a physician immediately. Do not attempt to neutralise. 4.2 Most important symptoms and effects, both acute and delayed The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11 4.3 Indication of any immediate medical attention and special treatment needed No data available **SECTION 5: Firefighting measures** 5.1 Extinguishing media Suitable extinguishing media Water Foam Carbon dioxide (CO2) Dry powder Unsuitable extinguishing media For this substance/mixture no limitations of extinguishing agents are given. 5.2 Special hazards arising from the substance or mixture Carbon oxides Sulfur oxides Hydrogen chloride gas Hydrogen fluoride Borane/boron oxides Mixture with combustible ingredients. Vapors are heavier than air and may spread along floors. Forms explosive mixtures with air at elevated temperatures. Development of hazardous combustion gases or vapours possible in the event of fire. 5.3 Advice for firefighters Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing. 5.4 Further information Remove container from danger zone and cool with water. Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system. **SECTION 6: Accidental release measures** 6.1 Personal precautions, protective equipment and emergency procedures Advice for non-emergency personnel: Do not breathe vapors, aerosols. Avoid substance contact. Ensure adequate ventilation. Keep away from heat and sources of ignition. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8. 6.2 Environmental precautions Do not let product enter drains. Risk of explosion. 6.3 Methods and materials for containment and cleaning up Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up carefully with liquid-absorbent material (e.g. Chemizorb®). Dispose of properly. Clean up affected area. 6.4 Reference to other sections For disposal see section 13. **SECTION 7: Handling and storage** 7.1 Precautions for safe handling Advice on safe handling Work under hood. Do not inhale substance/mixture. Avoid generation of vapours/aerosols. Advice on protection against fire and explosion Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharge. Hygiene measures Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

Keep container tightly closed in a dry and well-ventilated place. Keep away from heat and

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sources of ignition. Store under inert gas. Storage class Storage class (TRGS 510): 3: Flammable liquids 7.3 Specific end use(s) Apart from the uses mentioned in section 1.2 no other specific uses are stipulated **SECTION 8: Exposure controls/personal protection** 8.1 Control parameters Ingredients with workplace control parameters 8.2 Exposure controls Personal protective equipment Eye/face protection Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Tightly fitting safety goggles Skin protection Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it. Splash contact Material: Fluorinated rubber Minimum layer thickness: 0,7 mm Break through time: 120 min Material tested: Vitoject® (KCL 890 / Aldrich Z677698, Size M) data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374 If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the EC approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario. Body Protection Flame retardant antistatic protective clothing. Respiratory protection required when vapours/aerosols are generated. Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system. Recommended Filter type: Filter type ABEK The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented. Control of environmental exposure Do not let product enter drains. Risk of explosion. **SECTION 9: Physical and chemical properties** 9.1 Information on basic physical and chemical properties a) Physical state liauid b) Color No data available c) Odor No data available d) Meltina No data available point/freezing point e) Initial boiling point No data available and boiling range f) Flammability (solid, No data available gas)

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g) Upper/lower flammability or explosive limits h) Flash point i) Autoignition temperature j) Decomposition temperature k) pH l) Viscosity

m) Water solubility n) Partition coefficient: n-octanol/water o) Vapor pressure p) Density Relative density q) Relative vapor density r) Particle characteristics s) Explosive properties t) Oxidizing properties 9.2 Other safety information No data available

#### No data available

27 °C - closed cup No data available

No data available

No data available Viscosity, kinematic: No data available Viscosity, dynamic: No data available No data available No data available

No data available 1,271 g/cm3 No data available No data available

No data available

Not classified as explosive. none

SECTION 10: Stability and reactivity 10.1 Reactivity Vapor/air-mixtures are explosive at intense warming. 10.2 Chemical stability The product is chemically stable under standard ambient conditions (room temperature). 10.3 Possibility of hazardous reactions No data available 10.4 Conditions to avoid Heating. 10.5 Incompatible materials Bases, Alkali metals, Strong acids and strong bases, Strong oxidizing agents, Amines, Vinyl compounds, Alcohols, acids, Aluminum, Magnesium 10.6 Hazardous decomposition products In the event of fire: see section 5

### **SECTION 11: Toxicological information**

11.1 Information on toxicological effects Routes of Entry: Absorbed through skin. Dermal contact. Eye contact. Toxicity to Animals: Oral LD50 Rat: 1500 mg/kg; Dermal LD50 Rabbit: 2000mg/kg Inhalation LC50 Rat: > 50mg/L. Chronic Effects on Humans: CARCINOGENIC EFFECTS: Classified None. by NTP, None. by OSHA, None. by NIOSH. Other Toxic Effects on Humans: Hazardous in case of skin contact (irritant), of inhalation (lung irritant). Special Remarks on Toxicity to Animals: Not available. Special Remarks on other Toxic Effects on Humans: Not available. Special Remarks on other Toxic Effects on Humans: Not available.

#### **SECTION 12: Ecological information**

12.1 Toxicity Mixture No data available 12.2 Persistence and degradability No data available 12.3 Bioaccumulative potential No data available

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12.4 Mobility in so	bil			
No data available				
12.5 Results of Pl	BT and vPvB assessm	nent		
This substance/m	ixture contains no con	nponents considered to be either persistent,		
		y persistent and very bioaccumulative (vPvB	3) at	
levels of 0.1% or				
12.6 Endocrine di	srupting properties			
Product:				
Assessment		xture does not contain components		
		endocrine disrupting properties		
		H Article 57(f) or Commission		
		on (EU) 2017/2100 or Commission		
10.7 Other adver	• • • •	18/605 at levels of 0.1% or higher.		
12.7 Other advers				
No data available				
Components Dichloromethane				
	w through toot I CEO	Dimonholog promolog (fotbood		
minnow) - 193,00		Pimephales promelas (fathead		
Remarks: (ECHA				
Toxicity to daphni				
and other aquatic		No. 2		
invertebrates				
	Daphnia magna (Wate	er flea) - 27 mg/l - 48 h		
(US-EPA)	1 5 (	, , ,		
Toxicity to bacteri	a static test EC50 - ac	ctivated sludge - 2.590 mg/l - 40 min		
(OECD Test Guid	eline 209)			
Toxicity to				
fish(Chronic toxic	ity)			
	LC50 - Pimephales pr	omelas (fathead		
minnow) - 471 mg/l - 8 d				
Remarks: (ECHA)				
Dibutyl{[(trifluoromethyl)sulfonyl]oxy}borane No data available				
SECTION 13: Dis	posal consideration	s		
13.1 Waste treatm				
No data available				
R				
	insport information			
14.1 UN number		2 C. STK		
ADR/RID: 2920		IMDG: 2920	IATA: 2920	
14.2 UN proper sl				
ADR/RID		UID, FLAMMABLE, N.O.S. (Dichloromethan	ie,	
IMDG		ethyl)sulfonyl]oxy}borane) UID, FLAMMABLE, N.O.S. (Dichloromethan		
IMDG		ethyl)sulfonyl]oxy}borane)	le,	
ΙΑΤΑ		lammable, n.o.s. (Dichloromethane,		
		ethyl)sulfonyl]oxy}borane)		
14.3 Transport ha		sury/jourony.joxyjoorune/		
ADR/RID: 8 (3)		IMDG: 8 (3)	IATA: 8 (3)	
14.4 Packaging g	roup			
ADR/RID: II	•	IMDG: II	IATA: II	
14.5 Environment	al hazards			
ADR/RID: no		IMDG Marine pollutant: no	IATA: no	
14.6 Special prec	autions for user	•		
Tunnel restriction		: (D/E)		
Further information	n	: No data available		
	41			

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### **SECTION 15: Regulatory information**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006. Authorisations and/or restrictions on use REACH - Restrictions on the manufacture, placing on the market and use of certain Dichloromethane dangerous substances, mixtures and articles (Annex XVII) National legislation Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. P5c FLAMMABLE LIQUIDS P5c FLAMMABLE LIQUIDS Other regulations Observe work restrictions regarding maternity protection in accordance to Dir 92/85/EEC or stricter national regulations where applicable. Take note of Dir 94/33/EC on the protection of young people at work. 15.2 Chemical Safety Assessment For this product a chemical safety assessment was not carried out

### Section 16: Other Information

This safety data sheet should be used in conjunction with technical sheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product. The aim of the mandatory regulations mentioned is to help the user to fulfill his obligations regarding the use of hazardous products.

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