

Revision number: 1 Revision date: 07/06/2018

1. IDENTIFICATION

Product name: Product code:

Product use: Restrictions on use:

Company: TCI America 9211 N. Harborgate Street Portland, OR 97203 U.S.A. Telephone: +1-800-423-8616 / +1-503-283-1681 Fax: +1-888-520-1075 / +1-503-283-1987 e-mail: sales-US@TCIchemicals.com www.TCIchemicals.com

2. HAZARD(S) IDENTIFICATION

2,4-Difluorotoluene D2351
For laboratory research purposes.

Emergency telephone number: Chemical Emergencies: TCI America (8:00am - 5:00pm) PST +1-503-286-7624 Transportation Emergencies: Chemtrec 24-Hour +1-800-424-9300 (U.S.A.) +1-703-527-3887 (International) Responsible department: TCI America Environmental Health Safety and Security +1- 503-286-7624

OSHA Haz Com: CFR 1910.1200: WHMIS 2015:	Flammable Liquids [Category 2]
Signal word:	Danger!
Hazard Statement(s):	Highly flammable liquid and vapor
Pictogram(s) or Symbol(s):	
Precautionary Statement(s): [Prevention]	Keep away from heat, sparks, open flames and hot surfaces. – No smoking. Keep container tightly closed. Ground and bond container and receiving equipment. Use explosion-proof electrical, ventilating and lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wear protective gloves, eye protection.
[Response] [Storage]	If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Store in a well-ventilated place. Keep cool.
[Disposal]	Dispose of contents and container in accordance with local, regional, national regulations (e.g. US: 40 CFR Part 261, EU:91/156/EEC, JP: Waste Disposal and Cleaning Act, etc.).
Hazards not otherwise classified: [HNOC]	None.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture:	Substance
Components:	2,4-Difluorotoluene
Percent:	
CAS RN:	452-76-6
Molecular Weight:	128.12
Chemical Formula:	C7H6F₂

For laboratory research purpos Not for drug or household use.

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SAFETY DATA SHEET

4. FIRST-AID MEASURES				
Description of first aid measures				
Inhalation:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical			
Skin contact:	advice/attention if you feel unwell. Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation or rash occurs: Get medical advice/attention. 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. Get medical advice/attention if you feel unwell. Rinse mouth.			
Eye contact:				
Ingestion:				
Symptoms/effects:				
Acute:	No data available			
Delayed:	No data available			
Indication of any immediate medical attended to the second	ention:			
Notes to physician: No data available				
5. FIRE-FIGHTING MEASURES				
Suitable extinguishing media:	Dry chemical, foam, water spray, carbon dioxide.			
Unsuitable extinguishing media:	Solid streams of water			
Specific hazards arising from the chemical:	Take care as it may decompose upon combustion or in high temperatures to generate poisonous fume.			
Hazardous combustion products:	These products include: Carbon oxides Halogenated compounds			
Other specific hazards:	WARNING: Highly toxic HF gas is produced during combustion.			
Advice for firefighters:	Wear self-contained breathing apparatus if possible.			
6. ACCIDENTAL RELEASE MEASU	RES			
Personal precautions, protective equipment and emergency procedures:	Use extra personal protective equipment (self-contained breathing apparatus). Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Entry to non-involved personnel should be controlled around the leakage area by roping off, etc.			
Environmental precautions:	Prevent product from entering drains.			
Methods and materials for containment and cleaning up:	Absorb spilled material in dry sand or inert absorbent before recovering it into an airtight container. In case of large amount of spillage, contain a spill by bunding. Adhered or collected material should be			
	promptly disposed of, in accordance with appropriate laws and regulations.			
Prevention of secondary hazards:	Remove all sources of ignition. Fire-extinguishing devices should be prepared in case of a fire. Use spark-proof tools and explosion-proof equipment.			
7. HANDLING AND STORAGE				
Precautions for safe handling:	for safe handling: Handling is performed in a well ventilated place. Wear suitable protective equipment. Prevent generation of vapour or mist. Keep away from heat/sparks/open flame/hot surfacesNo smoking. measures to prevent the build up of electrostatic charge. Use explosion-proof equipment. Wash have and face thoroughly after handling. Use a closed system if possible. Use a ventilation, local exhaust if vapour or aerosol will be generation of contact with skin, eyes and clothing.			
Conditions for safe storage, including a	ny incompatibilities			
Storage conditions:	Keep container tightly closed. Store in a cool, dark and well-ventilated place. Store away from incompatible materials such as oxidizing agents.			
Packaging material:	Comply with laws.			
8. EXPOSURE CONTROLS / PERSC	NAL PROTECTION			
Appropriate engineering controls:	Follow safe industrial engineering/laboratory practices when handling any chemical. Install a closed system or local exhaust. Also install safety shower and eye bath.			

Personal protective equipment	
Respiratory protection:	Vapor respirator. Follow local and national regulations.
Hand protection:	Protective gloves.
Eye protection:	Safety glasses. A face-shield, if the situation requires.
Skin and body protection:	Protective clothing. Protective boots, if the situation requires.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state (20°C): Form: Colour: Odour: Odor threshold: Odour threshold:	Liquid Clear Colorless - Pale yellow No data available No data available No data available		
Melting point/freezing point: Boiling point/range: Decomposition temperature: Relative density: Kinematic viscosity: Log Pow:	No data available 116°C (241°F) No data available 1.13 No data available No data available	pH: Vapour pressure: Vapour density: Dynamic Viscosity: Evaporation rate(Butyl	No data available No data available. No data available No data available No data available
Flash point: Flammability(solid, gas):	15°C (59°F) No data available	Acetate=1): Autoignition temperature: Flammability or explosive limits: Lower:	No data available No data available
Solubility(ies): [Water] [Other solvents] 10. STABILITY AND REACT	No data available No data available	Upper:	No data available
Reactivity:	No data available		

Reactivity: Chemical stability: Possibility of hazardous reactions: Conditions to avoid: Incompatible materials: Hazardous decomposition products: No data available Stable under proper conditions. No special reactivity has been reported. Spark, Open flame, Static discharge Oxidizing agents Carbon dioxide, Carbon monoxide, Hydrogen fluoride

No data available

OSHA:

No data available

11. TOXICOLOGICAL INFORMATION

Acute Toxicity: No data available

Skin corrosion/irritation: No data available

Serious eye damage/irritation: No data available

Respiratory or skin sensitization: No data available

Germ cell mutagenicity: No data available

Carcinogenicity: No data available

IARC: No data available

Reproductive toxicity: No data available

Target organ(s):

No data available

NTP:

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12. ECOLOGICAL INFORMATION

Ecotoxicity:				
Fish:		No data available		
Crustacea:	1	No data available		
Algae:		No data available		
Persistence / deg		No data available		
Bioaccumulative Mobility in soil	potential(BCF):	No data available		
Log Pow:		No data available		
	otion (Koc):	No data available		
Henry's La	w (PaM ³/mol):	No data available		
	CONSIDERATIONS			
Disposal of product:Recycle to process if possible. It is the generator's responsibility to comply with Federal, State and Local rules and regulations. You may be able to dissolve or mix material with a combustible solver and burn in a chemical incinerator equipped with an afterburner and scrubber system. This section intended to provide assistance but does not replace these laws, nor does compliance in accordan 			o dissolve or mix material with a combustible solvent th an afterburner and scrubber system. This section is place these laws, nor does compliance in accordance according to the law. US EPA guidelines for are listed in 40 CFR Parts 261. The product should not ater ways, or the soil.	
14. TRANSPOR	T INFORMATION			
<u>DOT (US)</u> UN number: UN1993	Proper Shipping Na Flammable liquids, n.		Class or Division: 3 Flammable liquid	Packing Group: II
IATA UN number: UN1993	Proper Shipping Na Flammable liquid, n.o		Class or Division: 3 Flammable liquid	Packing Group: II
IMDG UN UN1993 numb er	Proper Shipping Na Flammable liquid, n.o		Class or Division: 3 Flammable liquid	Packing Group: II

er: EmS number:

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15. REGULATORY INFORMATION

Toxic Substance Control Act (TSCA 8b.):

This product is NOT on the EPA Toxic Substances Control Act (TSCA) inventory. The following notices are required by 40 CFR 720.36 (C) for those products not on the inventory list:

(i) These products are supplied solely for use in research and development by or under the supervision of a technically qualified individual as defined in 40 CFR 720.0 et sec.

(ii) The health risks of these products have not been fully determined. Any information that is or becomes available will be supplied on a SDS sheet.

US Federal Regulations

	nd Reportable Quantity:	
	Not Listed	
	Not Listed	
<u>.</u>		
ow		
ts	Not Listed	
	Not Listed	
	Not Listed	
ition 65:	Not Listed	
L		
		HMIS Classification:
2		Health:
3		Flammability:
0		Physical:
ntories		
	207-211-9	
	ition 65: 2 3 0	Not Listed Not Li

16. OTHER INFORMATION

Revision date: 07/06/2018

Revision number: 1

TCI chemicals are for research purposes only and are NOT intended for use as drugs, food additives, households, or pesticides. The information herein is believed to be correct, but does not claim to be all inclusive and should be used only as a guide. Neither the above named supplier nor any of its affiliates or subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All chemical reagents must be handled with the recognition that their chemical, physiological, toxicological, and hazardous properties have not been fully investigated or determined. All chemical reagents should be handled only by individuals who are familiar with their potential hazards and who have been fully trained in proper safety, laboratory, and chemical handling procedures. Although certain hazards are described herein, we can not guarantee that these are the only hazards which exist. Our SDS are based only on data available at the time of shipping and are subject to change without notice as new information is obtained. Avoid long storage periods since the product is subject to degradation with age and may become more dangerous or hazardous. It is the responsibility of the user to request updated SDS for products that are stored for extended periods. Disposal of unused product must be undertaken by qualified personnel who are knowledgeable in all applicable regulations and follow all pertinent safety precautions including the use of appropriate protective equipment (e.g. protective goggles, protective clothing, breathing equipment, face mask, fume hood). For proper handling and disposal, always comply with federal, state and local regulations.

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