

# SAFETY DATA SHEET

									Date	Accesse	d: 25/08	8/202
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-	TION				_							
	ict Name:											
	ŧ: 76089-7							1	·			·
	ant identi		ses of t	he subst	ance: S	cienti	fic resea	rch and	develo	onment		
	ier details			10, 50551		, orontin		and gind	ueven	phient		
• •			terials									
E-mail	ord Advano : sales@s	amate	rials.coi	m								
	49) 407-8					·	:	÷.,	÷	:		·
Addres	ss: 23661	Birtche	er Dr., L	ake Fore.	st, CA 9	) 2630 l	J.S.A.					
	FION											
GHS0					'		<sup>1</sup>	*				
Skin Ir	rit. 2 H31	5 Caus	es skin	irritation.								
Eye Irr	rit. 2A H31	19 Cau	ses seri	ious eye i	irritation	-		1.1.1				
STOT	SE 3 H33	85 May	cause i	respirator	y irritati	on.						
GHS I	abel elem	ents	1	:	1	1	1	1	1		1.	1
	ibetanco i	s class	ified an	d labeled	accord	ing to t	he Globa	ally Harm	nonized	System (	GHS).	
The su	JUSIANCE I											
	d pictogra	ms										
Hazaro					: · ·			1.1			: · ·	

Hazard-determi	ning co	ompone	nts of lal	beling:	1. 			·			1	
Cerium(III) triflu	oromet	thanesu	Ilfonate,	min. 98%	6 (Ceriu	um triflate	e)					
Hazard stateme	ents		· · · <sup>1</sup>	'		· · · <sup>1</sup>	· · · <sup>*</sup>					'
H315 Causes s	kin irrita	ation.										
H319 Causes s	erious	eye irrit	ation.									
H335 May caus	e respi	iratory ii	rritation.I	Precautic	onary st	atement	S	1	t.		1	:
P231 Handle ur	nderine	ert gas.					,					
P262 Do not ge	t in eye							,			1	
P305+P351+P3 lenses,	338 If in	n eyes: l	Rinse ca	utiously	with wa	iter for se	everal mi	nutes.	Remove	contact		
if present		·			1		1	·	:		1	
and easy to do.	Contin	ue rinsi	ng.	,		1				*		
P403+P233 Sto	ore in a	well-ve										
inert gas.						. 1	10					
P501 Dispose c												
regulations.		1		1	1 		÷.,	1	1		1.1	:
Classification sy	ystem:											
NFPA ratings (s	scale 0	- 4)										
1,	; • •											
0 0	t,	1		1	1			1		:.	5	
Health = 1			<sup>1</sup>									
Fire = 0												
Reactivity = 0	; • •									: • •		
HMIS-ratings (s	cale 0	- 4)			·	. 1		1		1	1	
HEALTH	· .		;			;	· .		;			
FIRE	'			<sup>1</sup>	1 I		<sup>1</sup>		<sup>1</sup>	1.1		'
REACTIVITY												
1	: ' '				1.1.1							
<b>0</b> *	÷.,	1. 	;	ł,		;	÷.,	1 1	;`	;.	÷	÷
			1	1			1		1			

									. '			
<b>O</b> .	1	1		1	1 			·		1	1	: '
Health = 1 Fire = 0	'		<sup>1</sup>	'			<sup>1</sup>		'	'		'
Reactivity = 0 Other hazards							; · ·					
Results of PBT a	and <sub>v</sub> P	vB'asse	essment	1	1	: <sup>1</sup>	1	·	ef i	1	<b>1</b>	:
PBT: N/A vPvB: N/A	'			'		<sup>1</sup>	*		'	*		*

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances

CAS # / Substance Name

76089-77-5 Cerium(III) trifluoromethanesulfonate, min. 98% (Cerium triflate)

## SECTION 4. FIRST AID MEASURES

Description of first aid measures

If inhaled: In case of unconsciousness place patient stably in side position for transportation. In case of skin contact: Immediately wash with soap and water; rinse thoroughly. In case of eye contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor. If swallowed: If symptoms persist consult doctor. Information for doctor: Most important symptoms and effects, both acute and delayed:

Indication of any immediate medical attention and special treatment neededNo data available

## **SECTION 5. FIREFIGHTING MEASURES**

Extinguishing media

Suitable extinguishing agents:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Special hazards arising from the substance or mixture No data available

Advice for firefighters

Protective equipment: No special measures required.

#### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures Not required.									
Environmental precautions: No special measures required.									
Methods and materials for containment and cleanup:									
Dispose contaminated material as waste according to item 13.			. '	: • •					
Ensure adequate ventilation.									
Reference to other sections	1	1 1		1	1.1				
See Section 7 for information on safe handling.	'			'					
See Section 8 for information on personal protection equipment.									
See Section 13 for disposal information.									

#### **SECTION 7. HANDLING AND STORAGE**

Handling:

Precautions for safe handling Open and handle receptacle with care. Information about protection against explosions and fires: No special measures required. Conditions for safe storage, including any incompatibilities: Requirements to be met by storerooms and receptacles: No special requirements. Information about storage in one common storage facility: Not required. Further information about storage conditions: Keep receptacle tightly sealed.

Store in cool, dry conditions in well sealed receptacles. Specific end use(s) No data available SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION Additional information about design of technical systems: No further data; see item 7. **Control parameters** Components with limit values that require monitoring at the workplace: Not required. Additional information: The lists that were valid during the creation were used as basis. Exposure controls Personal protective equipment: General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin. Breathing equipment: In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air. Protection of hands: Protective gloves The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of												
quality and		1 1			1 I			1 I 1				
varies from manu	facturer	to ma	nufacturer									
Penetration time of	of glove	mater	ial	: ' '						: ' '		
The exact break t	The exact break through time has to be found out by the manufacturer of the protective gloves and											
has to be												
observed.					1		· · '					
Eye protection:												
RTightly sealed g	oggles											

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties												
Appearance:												
Form: Powder	1	1			1 	:	1.	·				
Color: White	. 1	1 I					'					
Odor: Odorless												
Odor threshold: No data available.												
pH: N/A Melting point/Melting range: No data available.												
Boiling point/Boiling range: No data available.												
Flash point: N/A												
Flammability (solid, gas): Product is not flam	mmab	le:		; • •			; • •					
Ignition temperature:	: <u>.</u>	1	af l		1	: :		1				
Decomposition temperature: No data availa												
Autoignition: No data available.	. '		· · · <sup>1</sup>	'	1	· · · <sup>1</sup>	'					
Danger of explosion: Product does not present an explosion hazard.												
Explosion limits:												
Lower: No data available.	1	н Пала	:			: Contraction of the second se		1				

		1 1 1			1 1 1					
Upper: No data available.		1	1	:		1			1	
Vapor pressure: no data hPa										
Density: No data available.	· · · '				'		· · · '			
Relative density No data availa	ble.									
Vapor density N/A										
Evaporation rate N/A		1	1. 	1		1	:		1 1	:
Solubility in / Miscibility with										
Water: Insoluble.			·							
Partition coefficient (n-octanol/v	vater): No	data a	vailable	e.Viscosity	/: <sub>; · ·</sub>					
Dynamic: N/A										
Kinematic: N/A	: <sup>1</sup>	1	1. e e e e e e e e e e e e e e e e e e e			1			1 1	÷
Solvent content:		<sup>1</sup>								
Organic solvents: 0.0 %										
VOC content: 0.0 g/l / 0.00 lb/gl										
Solids content: 100.0 %								1		
Other information No data avail	able	1		1	· .					:
and the second										

#### SECTION 10. STABILITY AND REACTIVITY

Reactivity No data available Chemical stability Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications. Possibility of hazardous reactions No dangerous reactions known. Conditions to avoid No data available Incompatible materials: No data available Hazardous decomposition products: No dangerous decomposition products known.

#### **SECTION 11. TOXICOLOGICAL INFORMATION**

Information on toxicological effects	:	·		:	1	-		1	
Acute toxicity:									
Primary irritant effect:	· · '	1	· · · <sup>1</sup>	· · '	1				'
on the skin: Irritant to skin and mucous									
on the eye: Irritating effect.									
Sensitization: No sensitizing effects kr	iown.	·		1	·	:		1	:
Additional toxicological information:									
Carcinogenic categories									
IARC (International Agency for Resea	rch ọn C	ancer)	. '						
Substance is not listed.						,			
NTP (National Toxicology Program)	1	1.1		1	·		1	1	:
Substance is not listed.	'								'
OSHA-Ca (Occupational Safety & Hea	alth Admi	inistrati	on)						
Substance is not listed.	111			;···					
	1	1. 		1	1. 	1		·	:
SECTION 12. ECOLOGI		NFO	RMA	ΓΙΟΝ					
Toxicity		ł			,				
Aquatic toxicity: No data available	1.11			; • •			;**		
Persistence and degradability No data									
Behavior in environmental systems:		- '			· · ·			1	
Bioaccumulative potential No data ava	ailable					1.1			'
Mobility in soil No data available									
Additional ecological information: Not	known to	be ha	zardous	to water.			111		
Results of PBT and vPvB assessment									
PBT: N/A									
vPvB: N/AOther adverse effects No da				· · · '					'
				; • •					

## SECTION 13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Recommendation:

Must not be disposed of together with household garbage. Do not allow product to enter drains, sewage systems, or other water courses system. Uncleaned packagings:

Recommendation: Disposal must be made according to official regulations.

### **SECTION 14. TRANSPORT INFORMATION**

				.'	,				
UN-Number									
DOT, ADN, IMDG, IATA not regu	ulated				:	1			1
UN proper shipping name		'	1 1			н н н			•
DOT, ADN, IMDG, IATA not regu	ulated								
Transport hazard class(es)		1.1.1						; • •	
DOT, ADN, IMDG, IATA Class not regulated	÷	4.	5	af l	:	1	af l	÷.	5
Packing group	'	'	1 I 1		'	л г т			
DOT, IMDG, IATA not regulated									
Environmental hazards:		1.1.1	1.1.1						
Marine pollutant: No		1	·			1. 			5
Special precautions for user N/A									
Transport in bulk according to A	nnex II of			<sup>1</sup>	<sup>1</sup>				
MARPOL73/78 and the IBC Cod									
UN "Model Regulation": not regu	llated								

### **SECTION 15. REGULATORY INFORMATION**

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

Section 355 (extremely hazardous substances):

	1						1			
Substance is not listed.		1	1		÷.,	·		÷.,	1	
Section 313 (Specific toxic ch	nemical listi	ings):								
Substance is not listed.			1		· · · '	1		· · · '		
TSCA (Toxic Substances Cor	-									
Substance is not listed.										
Proposition 65		1			1	1	÷		1	:
Chemicals known to cause ca	ancer:									
Substance is not listed.			,							
Chemicals known to cause re	productive	toxicity	y for fer	nales:						
Substance is not listed.										
Chemicals known to cause re	productive	toxicity	y for ma	ales:	1.	1 	: <sup>1</sup>	1	1	
Substance is not listed.		'	1 I 1			1 1		'		
Chemicals known to cause de	evelopmen	tal toxio	city:							
Substance is not listed.										
Carcinogenic categories										
EPA (Environmental Protection		)Substa		not listed	-		÷.	1	· · · ·	
TLV (Threshold Limit Value e	stablished	by ACC	GIH)	<sup>1</sup>		1 1				'
Substance is not listed.										
NIOSH-Ca (National Institute	for Occupa	ational	Safety	and Heal	th)					1
Substance is not listed.		:	·		:	·		:		
GHS label elements	ı				1		,	1		
The substance is classified a	nd labeled	accord	ing to t	he Globa	lly Harm	onized	System	(GHS).		'
Hazard pictograms										
d~?GHS07		1.1.1								
Signal word Warning			1 	1		1	e <sup>r</sup>		1	
Hazard-determining compone	ents of labe	eling:								
Cerium(III) trifluoromethanesu				ım triflate						
Hazard statements	1									
H315 Causes skin irritation.		1								
H319 Causes serious eye irri	tation.		1		1	1	e la compañía de la c	÷.,	1.1	

H335 May cause respiratory irritation.

Precautionary statements

P231 Handle under inert gas.

P262 Do not get in eyes, on skin, or on clothing.

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses,

if present

and easy to do. Continue rinsing.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P422 Store contents under inert gas.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

### **SECTION 16. OTHER INFORMATION**

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH). The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.