

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 01/06/2017 Revision date: : Version: 1.0 ECB-5339

		e substance/mixture and of the company/undertaking	
1.1.	Product identifier	. Misturee	
Product form : Mixtures Product name : 4'-BROMO-3.3',4.5.5'-PENTACB (13C12, 99%) 40 UG/ML IN NONANE			
Product		: 4'-BROMO-3,3',4,5,5'-PENTACB (13C12, 99%) 40 UG/ML IN NONANE : ECB-5339	
1.2.	Relevant identified uses of the	e substance or mixture and uses advised against	
1.2.1.	Relevant identified uses		
Main us	se category	: Professional use	
Industri	al/Professional use spec	: For professional use only	
1.2.2.	Uses advised against		
No add	itional information available		
1.3.	Details of the supplier of the s	safety data sheet	
50 Fror Andove USA	Cambridge Isotope Laboratories, Inc. 50 Frontage Road Andover, MA 01810 USA		
	-800-322-1174 Int: 1-978-749-80 @isotope.com www.isotope.com		
	Emergency telephone number	r	
Emerge	Emergency numbers:		
	ec: 1-800-424-9300 (24 hours) ional: 1-703-741-5970 (24 hours)		
SECT	ION 2: Hazards identificat	ion	
2.1.	Classification of the substance	e or mixture	
Classification according to Regulation (EC) No. 1272/2008 [CLP]Flam. Liq. 3H226Acute Tox. 4 (Inhalation:dust,mist)H332Skin Irrit. 2H315Eye Irrit. 2H319STOT SE 3H336Asp. Tox. 1H304			
	t of hazard classes and H-stateme	nts : see section 16	
Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD] Xn; R20 Xn; R65 Xi; R36/37/38			

Xn; R65 Xi; R36/37/38 R10 Full text of R-phrases: see section 16

GHS-US classification

Flam. Liq. 3	H226
Acute Tox. 4 (Inhalation:vapour)	H332
Skin Irrit. 2	H315
Eye Irrit. 2A	H319
STOT SE 3	H336
Asp. Tox. 1	H304

Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

2.2. Label elements	
Labeling according to Regulation (EC) No	o. 1272/2008 [CLP]
Hazard pictograms (CLP)	
	GHS02 GHS08 GHS07
Signal word (CLP)	: Danger
Hazardous ingredients	: N-NONANE UNLABELED
Hazard statements (CLP)	 H226 - Flammable liquid and vapor H304 - May be fatal if swallowed and enters airways H315 - Causes skin irritation H319 - Causes serious eye irritation H332 - Harmful if inhaled H336 - May cause drowsiness or dizziness
Precautionary statements (CLP)	: P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No
	smoking P233 - Keep container tightly closed P240 - Ground/bond container and receiving equipment P241 - Use explosion-proof electrical, lighting, ventilating equipment P261 - Avoid breathing dust, fume, gas, mist, spray, vapors P264 - Wash hands, forearms and face thoroughly after handling P271 - Use only outdoors or in a well-ventilated area P280 - Wear protective clothing, protective gloves
GHS-US labeling	
Hazard pictograms (GHS-US)	
	GHS02 GHS08 GHS07
Signal word (GHS-US)	: Danger
Hazard statements (GHS-US)	 H226 - Flammable liquid and vapor H304 - May be fatal if swallowed and enters airways H315 - Causes skin irritation H319 - Causes serious eye irritation H332 - Harmful if inhaled H336 - May cause drowsiness or dizziness
Precautionary statements (GHS-US)	 P210 - Keep away from heat, hot surfaces, open flames, sparks No smoking P233 - Keep container tightly closed P240 - Ground/Bond container and receiving equipment P241 - Use explosion-proof electrical, lighting, ventilating equipment P242 - Use only non-sparking tools P243 - Take precautionary measures against static discharge P261 - Avoid breathing fume, mist, spray, vapors P264 - Wash Both hands thoroughly after handling P271 - Use only outdoors or in a well-ventilated area P280 - Wear eye protection, face protection, protective clothing, protective gloves P301+P310 - If swallowed: Immediately call a doctor, a POISON CENTER P302+P352 - If on skin: Wash with plenty of water P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P312 - Call a doctor, a POISON CENTER if you feel unwell P321 - Specific treatment (see Hazard pictograms (CLP) on this label) P331 - Do NOT induce vomiting P332+P313 - If skin irritation occurs: Get medical advice/attention P337+P313 - If eye irritation persists: Get medical advice/attention P337+P378 - In case of fire: Use Alcohol resistant foam, Carbon dioxide, Dry chemical, Water
	spray to extinguish P403+P233 - Store in a well-ventilated place. Keep container tightly closed

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- P403+P235 Store in a well-ventilated place. Keep cool
- P405 Store locked up
- P501 Dispose of contents/container to Comply with applicable regulations

2.3. Other hazards

No additional information available

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Directive 67/548/EEC
N-NONANE UNLABELED	(CAS No) 111-84-2 (EC No) 203-913-4	99.9944	R10 Xn; R20 Xn; R65 Xi; R36/37/38
4'-BROMO-3,3',4,5,5'-PENTACB (13C12, 99%)		0.0056	Xn; R48/20 N; R50/53
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
N-NONANE UNLABELED	(CAS No) 111-84-2 (EC No) 203-913-4	99.9944	Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation:vapour), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H336 Asp. Tox. 1, H304
4'-BROMO-3,3',4,5,5'-PENTACB (13C12, 99%)		0.0056	STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Name	Product identifier	%	GHS-US classification
N-NONANE UNLABELED	(CAS No) 111-84-2	99.9944	Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation:vapour), H332 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H336 Asp. Tox. 1, H304
4'-BROMO-3,3',4,5,5'-PENTACB (13C12, 99%)		0.0056	STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Full text of R- and H- phrases: see section 16

SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures general	: If you feel unwell, seek medical advice. Evacuate danger area.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	: Wash skin with plenty of water.
First-aid measures after eye contact	: Rinse eyes with water as a precaution.
First-aid measures after ingestion	: Call a poison center/doctor/physician if you feel unwell.
4.2. Most important symptoms and effe	cts, both acute and delayed
Symptoms/injuries : May cause drowsiness or dizziness.	
Symptoms/injuries after inhalation	: Harmful if inhaled. May cause respiratory irritation.
Symptoms/injuries after skin contact	: Causes skin irritation. May be harmful in contact with skin.
Symptoms/injuries after eye contact : Causes serious eye irritation.	
Symptoms/injuries after ingestion	: May be fatal if swallowed and enters airways. Risk of lung edema.
4.3. Indication of any immediate medica	al attention and special treatment needed

Treat symptomatically.

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SECTION 5: Firefighting					
5.1. Extinguishing media	l				
Suitable extinguishing media	:	Water spray. Dry powder. Foam. Cark	oon dioxide.		
5.2. Special hazards arisi	5.2. Special hazards arising from the substance or mixture				
Reactivity	eactivity : The product is non-reactive under normal conditions of use, storage and transport.				
5.3. Advice for firefighter	s				
Firefighting instructions	:	Do not enter fire area without proper p	protective equipment, including respiratory protection.		
Protection during firefighting	:		suitable protective equipment. Self-contained breathing		
		apparatus. Complete protective clothi	ng.		
SECTION 6: Accidental	release measu	res			
6.1. Personal precautions	s, protective equi	oment and emergency procedures			
6.1.1. For non-emergency	personnel				
Emergency procedures	:		Ventilate spillage area. No open flames, no sparks, and		
		no smoking. Avoid breathing fume, ga	as, mist, spray, vapors. Avoid contact with skin and eyes.		
6.1.2. For emergency respo	onders				
Protective equipment	:		suitable protective equipment. For further information		
		refer to section 8: "Exposure controls/	personal protection".		
6.2. Environmental preca					
Prevent entry to sewers and pub	olic waters. Avoid re	elease to the environment.			
6.3. Methods and materia	al for containment	and cleaning up			
For containment	:		zardous waste. Comply with local regulations for disposal.		
Methods for cleaning up	Iethods for cleaning up : Take up liquid spill into absorbent material. Notify authorities if product enters sewers or publ waters. This material and its container must be disposed of in a safe way, and as per local legislation.				
Other information	:	Dispose of materials or solid residues	at an authorized site.		
6.4. Reference to other s	ections				
For further information refer to s	ection 13.				
SECTION 7: Handling ar	nd storage				
7.1. Precautions for safe					
Precautions for safe handling	:	Ensure good ventilation of the work st	tation. Wear personal protective equipment.		
Hygiene measures					
7.2. Conditions for safe s	storage, including	any incompatibilities			
Technical measures	:	Store in a well-ventilated place. Keep and receiving equipment.	container tightly closed. Keep dry. Ground/bond containe		
Storage conditions	:	Store at room temperature away from	light and moisture.		
7.3. Specific end use(s)					
No additional information availab	ble				
SECTION 8: Exposure c	ontro <u>ls/perso</u> r	nal protection			
8.1. Control parameters					
N-NONANE UNLABELED (11	1-84-2)				
Italy - Portugal - USA ACGIH	ACGIH TWA (ppr	n)	200.00000000 ppm USA. ACGIH Threshold Limit Values (TLV)		
	Remark (ACGIH)		CNS impair		
Italy - Portugal - USA ACGIH		A) (ma/m3)	1050 mg/m ³ USA. NIOSH Recommended Exposure		
Italy - Portugal - USA ACGIH USA NIOSH	NIOSH REL (TW	A) (IIIg/III'')	Limits		
, ,	NIOSH REL (TW.				
USA NIOSH		A) (ppm)	Limits 200 ppm USA. NIOSH Recommended Exposure		
USA NIOSH USA NIOSH	NIOSH REL (TW.	A) (ppm)	Limits 200 ppm USA. NIOSH Recommended Exposure Limits		

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N-NONANE UNLABELED (111-84-2)		
USA OSHA OSHA PEL (Ceiling) (mg/m ³) 1050 California permissible exposure limits for chemical contaminants.		
USA OSHA	OSHA PEL (Ceiling) (ppm)	200 ppm California permissible exposure limits for chemical contaminants.
8.2. Exposure controls		
Appropriate engineering controls : Ensure good ventilation of the work station.		
Personal protective equipment : Protective clothing. Protective goggles. Gloves. Self-contained breathing apparatus.		

Materials for protective clothing	: Wear suitable protective clothing and gloves.
Hand protection	: protective gloves.
Eye protection	: Chemical goggles or face shield. Chemical goggles or safety glasses.
Skin and body protection	: Wear suitable protective clothing, gloves and eye/face protection.
Respiratory protection	: Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. Approved respirator.
Environmental exposure controls	: Avoid release to the environment.

SECTION 9: Physical and chemical properties	ECTION 9: Ph	vsical and cl	hemical pr	operties
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SECTION 9: Physical and chemical properties		
9.1. Information on basic physical and chemical properties		
The properties listed below are for the solvent, the main comp	ponent of this mixture.	
Physical state	: Liquid	
Appearance	: Liquid.	
Molecular mass	: 128.3 g/mol	
Color	: Colorless.	
Odor	: No data available	
Odor threshold	: No data available	
рН	: No data available	
Relative evaporation rate (butyl acetate=1)	: No data available	
Melting point	: Not applicable	
Freezing point	: -53 °C (- 63 °F) - lit	
Boiling point	: 151 °C (304 °F) - lit	
Flash point	: 31 °C (87.8 °F) - closed cup	
Auto-ignition temperature	: 205 °C (401 °F)	
Decomposition temperature	: No data available	
Flammability (solid, gas)	: Not applicable	
Vapor pressure	: 5.69 hPa (4.27 mmHg) at 25 °C (77 °F)	
Relative vapor density at 20 °C	: No data available	
Relative density	: No data available	
Specific gravity / density	: 0.718 g/ml at 25 °C (77 °F)	
Solubility	: Water: 0.0002 % at 25 °C (77 °F) - slightly soluble	
Log Pow	5.65	

Condenity	. Water: 0.0002 /0 at 20 0 (11 1
Log Pow	: 5.65
Log Kow	: No data available
Viscosity, kinematic	: 1.008 mm ² /s at 20 °C (68 °F)
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Explosion limits	: 0.87 - 2.9 % (V)

9.2. **Other information**

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

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10.2. Chemical stability			
Stable if stored under recommended conditions.			
10.3. Possibility of hazardous reactions			
No dangerous reactions known under normal con	ditions of use.		
10.4. Conditions to avoid			
None under recommended storage and handling	conditions (see section 7).		
10.5. Incompatible materials			
No additional information available			
10.6. Hazardous decomposition products			
Carbon oxides (CO, CO2).			
· · · · /			
SECTION 11: Toxicological informati	bn		
11.1. Information on toxicological effects	· Inhalation-duct mist: Harmful if inhalad		
	: Inhalation:dust,mist: Harmful if inhaled.		
4'-BROMO-3,3',4,5,5'-PENTACB (13C12, 99%)	40 UG/ML IN NONANE 1.500 mg/l/4h		
N-NONANE UNLABELED (111-84-2) LC50 inhalation rat (mg/l)	23760 mg/m ³ male - 4 h		
ATE CLP (gases)	23760 mg/m ³ male - 4 n 3200.000 ppmV/4h		
ATE CLP (vapors)	11.000 mg/l/4h		
ATE CLP (dust, mist)	23.760 mg/l/4h		
Skin corrosion/irritation, Dermal, rat	Result: Skin Irritation (Draize Test)		
Additional information	: S. Typhimurium Result: negative		
Skin corrosion/irritation	: Causes skin irritation.		
Serious eye damage/irritation	: Causes serious eye irritation.		
Respiratory or skin sensitization	: Not classified		
Germ cell mutagenicity	: Not classified		
Carcinogenicity	: Not classified		
Reproductive toxicity	: Not classified		
Specific target organ toxicity - single exposure	: May cause drowsiness or dizziness.		
Specific target organ toxicity – repeated exposure	: Not classified		
N-NONANE UNLABELED (111-84-2)	100 ma/ka baduwajaht/day tamala (OECD Teat Cyildalina 400)		
NOAEL (oral,rat,90 days)	100 mg/kg bodyweight/day female (OECD Test Guildeline 408)		
Aspiration hazard	: May be fatal if swallowed and enters airways.		
Potential Adverse human health effects and symptoms	: This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.		
Symptoms/injuries after inhalation	: Harmful if inhaled. May cause respiratory irritation.		
Symptoms/injuries after skin contact	: Causes skin irritation. May be harmful in contact with skin.		
Symptoms/injuries after eye contact	: Causes serious eye irritation.		
Symptoms/injuries after ingestion	: May be fatal if swallowed and enters airways. Risk of lung edema.		

SECTION 12: Ecological information	
12.1. Toxicity	
Ecology - general	: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.
N-NONANE UNLABELED (111-84-2)	
EC50 Daphnia 1	0.2 mg/l static test EC50 - Daphnia magna (Water flea) - 48 h

No additional information available

12.3. Bioaccumulative potential	
4'-BROMO-3,3',4,5,5'-PENTACB (13C12, 99%) 40 UG/ML IN NONANE
Log Pow	5.65
N-NONANE UNLABELED (111-84-2)	
Log Pow	5.65
Bioaccumulative potential	Indication of bioaccumulation.
12.4. Mobility in soil	
No additional information available	
12.5. Results of PBT and vPvB assessme	nt
No additional information available	
12.6. Other adverse effects	
No additional information available	
SECTION 13: Disposal consideration	15
13.1. Waste treatment methods Regional legislation (waste)	: Waste materials should be disposed of under conditions which meet Federal, State, and Loca
Product/Packaging disposal recommendations:	 Waste materials should be disposed of under conditions which meet Federal, State, and Loca environmental control regulations. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed
	professional waste disposal service to dispose of this material.
Ecology - waste materials	: Dispose of as unused product.
SECTION 14: Transport information	
In accordance with ADR / RID / IMDG / IATA / AI	DN
14.1. UN number	
UN-No.(DOT)	: 1920
DOT NA no.	UN1920
14.2. UN proper shipping name	
Proper Shipping Name (DOT)	: Nonanes
Class (DOT)	: 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120
Hazard labels (DOT)	: 3 - Flammable liquid
Packing group (DOT)	: III - Minor Danger
DOT Special Provisions (49 CFR 172.102)	 B1 - If the material has a flash point at or above 38 C (100 F) and below 93 C (200 F), then the bulk packaging requirements of 173.241 of this subchapter are applicable. If the material has flash point of less than 38 C (100 F), then the bulk packaging requirements of 173.242 of this subchapter are applicable. IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liqui with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 52 for UN2672). T2 - 1.5 178.274(d)(2) Normal
DOT Packaging Exceptions (49 CFR 173.xxx)	: 150
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 203
DOT Packaging Bulk (49 CFR 173.xxx)	: 242
14.3. Additional information	
Emergency Response Guide (ERG) Number	: 128
Other information	: No supplementary information available.

Overland transport	
Hazard identification number (Kemler No.)	: 30
Orange plates	30 1920
Tunnel restriction code (ADR)	: D/E
Limited quantities (ADR)	51
EAC	: 3Y
Excepted quantities (ADR)	: E1
Transport by sea	
DOT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.
MFAG-No	: 128
Air transport	
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 60 L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 220 L
Civil Aeronautics Law	: Flammable liquids
14.4. Environmental hazards	
Other information	: No supplementary information available.
14.5. Special precautions for user	
14.6. Transport in bulk according to Anne	ex II of MARPOL 73/78 and the IBC Code
Not applicable	
SECTION 15: Regulatory information	
15.1. US Federal regulations	
4'-BROMO-3,3',4,5,5'-PENTACB (13C12, 99%) 40 UG/ML IN NONANE

4'-BROMO-3,3',4,5,5'-PENTACB (13C12, 99%) 40 UG/ML IN NONANE		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		
EPA TSCA Regulatory Flag	T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA.	
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporing requirements of the United States SARA Section 302.	
SARA Section 311/312 Hazard Classes	Fire hazard Immediate (acute) health hazard	
SARA Section 313 - Emission Reporting	Not subject to reporing requirements of the United States SARA Section 313.	
N-NONANE UNLABELED		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		
EPA TSCA Regulatory Flag	T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA.	
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporing requirements of the United States SARA Section 302.	
SARA Section 311/312 Hazard Classes	Fire hazard Immediate (acute) health hazard	
SARA Section 313 - Emission Reporting	Not subject to reporing requirements of the United States SARA Section 313.	
4'-BROMO-3,3',4,5,5'-PENTACB (13C12, 99%)		
SARA Section 302 Threshold Planning Quantity (TPQ)	SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.	
SARA Section 313 - Emission Reporting	Not subject to reporing requirements of the United States SARA Section 313	

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15.2. International regulations CANADA 4'-BROMO-3,3',4,5,5'-PENTACB (13C12, 99%) 40 UG/ML IN NONANE Listed on the Canadian DSL (Domestic Substances List) N-NONANE UNLABELED Listed on the Canadian DSL (Domestic Substances List)

Listed on the Canadian DSL (Domestic Substances List)

15.2.1. National regulations

N-NONANE UNLABELED

15.3. US State regulations

4'-BROMO-3,3',4,5,5'-PENTACB (13C12, 99%) 40 UG/ML IN NONANE()				
U.S California - Proposition 65 - Carcinogens List		No		
U.S California - Proposition 65 - Developmental Toxicity		No		
U.S California - Proposition 65 - Reproductive Toxicity - Female		No		
U.S California - Proposition Toxicity - Male	n 65 - Reproductive	No		
State or local regulations		U.S Idaho - Non-Carcinogenic U.S New Jersey - Right to Kn U.S Massachusetts - Right Tc U.S Pennsylvania - RTK (Rigl U.S New York - Reporting of	ow Hazardous Substance List o Know List ht to Know) List	
N-NONANE UNLABELE	D			
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)
No	No	No	No	
4'-BROMO-3,3',4,5,5'-PENT	ACB (13C12, 99%)			
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)
No	No	No	No	
N-NONANE UNLABELE	D			
State or local regulations				
U.S Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations U.S New Jersey - Right to Know Hazardous Substance List U.S Massachusetts - Right To Know List U.S Pennsylvania - RTK (Right to Know) List U.S New York - Reporting of Releases Part 597 - List of Hazardous Substances				
4'-BROMO-3,3',4,5,5'-PENT	ACB (13C12, 99%)			
State or local regulations				
U.S New Jersey - Right to U.S Pennsylvania - RTK (F		List		

SECTION 16: Other information	
Other information	: This product is not radioactive. The data given for this product are those of the corresponding unlabeled compound, unless specifically indicated otherwise. Health and safety data for labeled compounds are generally not available, but are assumed to be similar or identical to the corresponding unlabeled compound.
Full text of R-, H- and EUH-phrases:	
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4

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Acute Tox. 4 (Inhalation:vapour)	Acute toxicity (inhalation:vapour) Category 4
Aquatic Acute 1	Hazardous to the aquatic environment - Acute Hazard Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment - Chronic Hazard Category 1
Asp. Tox. 1	Aspiration hazard Category 1
Eye Irrit. 2	Serious eye damage/eye irritation Category 2
Flam. Liq. 3	Flammable liquids Category 3
Skin Irrit. 2	Skin corrosion/irritation Category 2
STOT RE 2	Specific target organ toxicity (repeated exposure) Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H226	Flammable liquid and vapor
H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H319	Causes serious eye irritation
H332	Harmful if inhaled
H336	May cause drowsiness or dizziness
H373	May cause damage to organs through prolonged or repeated exposure
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
R10	Flammable
R20	Harmful by inhalation
R36/37/38	Irritating to eyes, respiratory system and skin
R48/20	Harmful: danger of serious damage to health by prolonged exposure through inhalation
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R65	Harmful: may cause lung damage if swallowed
N	Dangerous for the environment
Xi	Irritant
Xn	Harmful

NFPA health hazard	: 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.
NFPA fire hazard	: 3 - Liquids and solids (including finely divided suspended solids) that can be ignited under almost all ambient temperature conditions.
NFPA reactivity	: 0 - Material that in themselves are normally stable, even under fire conditions.
HMIS III Rating	
Health	: 2 Moderate Hazard - Temporary or minor injury may occur
Flammability	: 3 Serious Hazard

CIL Mixture SDS

Physical

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product

: 0 Minimal Hazard