

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: 16/06/2017 Revision date: :

EC-5596

Version: 1.0

SECTION 1: I	dentification of the sub	stance/mixture and of the company/undertaking
1.1. Produc	ct identifier	
Product form		: Mixtures
Product name		: EPA METHOD 1668A/B/C ALT FIELD SPIKE SOLUTION 5000 NG/ML IN NONANE
Product code		: EC-5596
1.2. Releva	nt identified uses of the subst	tance or mixture and uses advised against
1.2.1. Releva	nt identified uses	
Main use categor	У	: Professional use
Industrial/Profess	ional use spec	: For professional use only
1.2.2. Uses a	dvised against	
No additional info	rmation available	
1.3. Details	of the supplier of the safety of	data sheet
50 Frontage Road Andover, MA 018 USA	810 -1174 Int: 1-978-749-8000	
	'	
Emergency numb	ency telephone number	
Chemtrec: 1-800	0-424-9300 (24 hours) 703-741-5970 (24 hours)	
SECTION 2: I	Hazards identification	
	ication of the substance or m	ixture
Classification a	ccording to Regulation (EC) N	o. 1272/2008 [CLP]
Flam. Liq. 3	H226	
•	alation:vapour) H332	
Skin Irrit. 2	H315	
Eye Irrit. 2	H319	
STOT SE 3	H336	
Asp. Tox. 1	H304	
-	H400	
Aquatic Acute 1		
•	d classes and H-statements : se	e section 16
Full text of hazard		
Full text of hazard		e section 16 EC [DSD] or 1999/45/EC [DPD]

#### **GHS-US** classification

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
Aquatic Acute 1	H400

Full text of H statements : see section 16

## IN NONANE EC-5596

### 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

#### 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 GHS09
Signal word (CLP)	: Danger
Hazardous ingredients Hazard statements (CLP)	<ul> <li>N-NONANE UNLABELED</li> <li>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 H400 - Very toxic to aquatic life</li> </ul>
Precautionary statements (CLP)	<ul> <li>P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking</li> <li>P233 - Keep container tightly closed</li> <li>P240 - Ground/bond container and receiving equipment</li> <li>P241 - Use explosion-proof electrical, lighting, ventilating equipment</li> <li>P261 - Avoid breathing dust, fume, gas, mist, spray, vapors</li> <li>P264 - Wash hands, forearms and face thoroughly after handling</li> <li>P271 - Use only outdoors or in a well-ventilated area</li> <li>P273 - Avoid release to the environment</li> </ul>
GHS-US labeling	
Hazard pictograms (GHS-US)	
	GHS02 GHS08 GHS07 GHS09
Signal word (GHS-US)	: Danger
Hazard statements (GHS-US)	<ul> <li>H226 - Flammable liquid and vapor</li> <li>H304 - May be fatal if swallowed and enters airways</li> <li>H315 - Causes skin irritation</li> <li>H319 - Causes serious eye irritation</li> <li>H332 - Harmful if inhaled</li> <li>H336 - May cause drowsiness or dizziness</li> <li>H400 - Very toxic to aquatic life</li> </ul>
Precautionary statements (GHS-US)	<ul> <li>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 P273 - Avoid release to the environment 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</li> </ul>

## IN NONANE EC-5596

### 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

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
P362+P364 - Take off contaminated clothing and wash it before reuse
P370+P378 - In case of fire: Use Alcohol resistant foam, Carbon dioxide, Dry chemical, Water
spray to extinguish
P391 - Collect spillage
P403+P233 - Store in a well-ventilated place. Keep container tightly closed
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

**Mixtures** 

#### No additional information available

### **SECTION 3: Composition/Information on ingredients**

3.1. Substances

#### Not applicable

3.2.

Name	Product identifier	%	Classification according to Directive 67/548/EEC
N-NONANE UNLABELED	(CAS No) 111-84-2 (EC No) 203-913-4	99.9967	R10 Xn; R20 Xn; R65 Xi; R36/37/38
2,4'-DICB (PCB-8) (13C12, 98%)	(CAS No) 34883-43-7 (Unlabeled) (EC Index No) 602-039-00-4	0.0011	Xn; R48/20/21/22 N; R50/53 R33
3,3',4,5'-TETRACB (PCB-79) (13C12, 99%)	(CAS No) 41464-48-6 (Unlabeled) (EC Index No) 602-039-00-4	0.0011	Xn; R48/20/21/22 N; R50/53 R33
2,2',4,4',5,5'-HEXACB (PCB-153) (13C12, 99%)	(CAS No) 185376-58-3 (EC Index No) 602-039-00-4	0.0011	N; R50/53 R33 R48
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	99.9967	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
2,4'-DICB (PCB-8) (13C12, 98%)	(CAS No) 34883-43-7 (Unlabeled) (EC Index No) 602-039-00-4	0.0011	STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
3,3',4,5'-TETRACB (PCB-79) (13C12, 99%)	(CAS No) 41464-48-6 (Unlabeled) (EC Index No) 602-039-00-4	0.0011	STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2,2',4,4',5,5'-HEXACB (PCB-153) (13C12, 99%)	(CAS No) 185376-58-3 (EC Index No) 602-039-00-4	0.0011	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	99.9967	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
2,4'-DICB (PCB-8) (13C12, 98%)	(CAS No) 34883-43-7 (Unlabeled)	0.0011	STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

IN NONANE EC-5596

### 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

Name	Product identifier	%	GHS-US classification
3,3',4,5'-TETRACB (PCB-79) (13C12, 99%)	(CAS No) 41464-48-6 (Unlabeled)	0.0011	STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2,2',4,4',5,5'-HEXACB (PCB-153) (13C12, 99%)	(CAS No) 185376-58-3	0.0011	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 ef	fects, 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 medi	cal attention and special treatment needed
Treat symptomatically.	
<b>SECTION 5: Firefighting measures</b>	
5.1. Extinguishing media	
Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.
5.2. Special hazards arising from the	substance or mixture
Reactivity	: Flammable liquid and vapor. vapors may form flammable mixture with air.
5.3. Advice for firefighters	
Firefighting instructions	: Do not enter fire area without proper protective equipment, including respiratory protection.
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
SECTION 6: Accidental release me	asures
6.1. Personal precautions, protective	equipment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures	: Wear personal protective equipment. Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid breathing fume, gas, mist, spray, vapors. Avoid contact with skin and eyes.
6.1.2. For emergency responders	
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
6.2. Environmental precautions	
Prevent entry to sewers and public waters. Av	oid release to the environment.
6.3. Methods and material for contain	ment and cleaning up
For containment	: Dike and contain spill. Dispose as hazardous waste. Comply with local regulations for disposal.
Methods for cleaning up	: Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.
Other information	: Dispose of materials or solid residues at an authorized site.
6.4. Reference to other sections	
For further information refer to section 13.	
<b>SECTION 7: Handling and storage</b>	
7.1. Precautions for safe handling	
	: Ensure good ventilation of the work station. Wear personal protective equipment.
Precautions for safe handling	. Ensure good ventilation of the work station, wear personal protective equipment.

## IN NONANE EC-5596

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

Hygiene measures	: Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2. Conditions for safe	e storage, including any incompatibilities
Technical measures	: Store in a well-ventilated place. Keep container tightly closed. Keep dry. Ground/bond container and receiving equipment.
Storage conditions	: Store at room temperature away from light and moisture.
7.2 Chaoifia and usa(a	

7.3. Specific end use(s) No additional information available

### SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

N-NONANE UNLABELED (11	1-84-2)	
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	200.00000000 ppm USA. ACGIH Threshold Limit Values (TLV)
Italy - Portugal - USA ACGIH	Remark (ACGIH)	CNS impair
USA NIOSH	NIOSH REL (TWA) (mg/m <sup>3</sup> )	1050 mg/m <sup>3</sup> USA. NIOSH Recommended Exposure Limits
USA NIOSH	NIOSH REL (TWA) (ppm)	200 ppm USA. NIOSH Recommended Exposure Limits
USA NIOSH	Remark (NIOSH)	Central Nervous System impairment
USA OSHA	OSHA PEL (TWA) (mg/m³)	1050 mg/m <sup>3</sup> USA. OSHA - Table Z-1 Limits for Air Contaminants - 1910.1000
USA OSHA	OSHA PEL (TWA) (ppm)	200 ppm USA. OSHA - Table Z-1 Limits for Air Contaminants - 1910.1000
USA OSHA	OSHA PEL (Ceiling) (mg/m <sup>3</sup> )	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 Personal protective equipment

- : Ensure good ventilation of the work station.
- : 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		
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

## IN NONANE EC-5596

### 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

-,	
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
Log Kow	: No data available
Viscosity, kinematic	: 1.008 mm²/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)
0.0 Others information	

#### 9.2. Other information

No additional information available

SECTION 10: Stability and reactivity	y l				
10.1. Reactivity					
Flammable liquid and vapor. vapors may form flammable mixture with air.					
10.2. Chemical stability	Chemical stability				
See storage and expiration date on CoA.					
-	o dangerous reactions known under normal conditions of use.				
10.4. Conditions to avoid					
Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.					
10.5. Incompatible materials	5. Incompatible materials				
No additional information available	lo additional information available				
10.6. Hazardous decomposition product	ts				
Carbon oxides (CO, CO2).					
SECTION 11: Toxicological informa	tion				
11.1. Information on toxicological effect					
Acute toxicity	: Inhalation:vapour: Harmful if inhaled.				
EPA METHOD 1668A/B/C ALT FIELD SPIKI					
ATE CLP (vapors)	11.000 mg/l/4h				
N-NONANE UNLABELED (111-84-2)					
LC50 inhalation rat (mg/l)	23760 mg/m <sup>3</sup> male - 4 h				
ATE CLP (gases)	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	erm cell mutagenicity : Not classified				
Carcinogenicity : Not classified					
Reproductive toxicity : Not classified					
pecific target organ toxicity – single exposure : May cause drowsiness or dizziness.					

## IN NONANE EC-5596

### 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

Specific target organ toxicity – repeated exposure	: Not classified	
N-NONANE UNLABELED (111-84-2)		
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 the purposes of health, safety and environmental requirements only. It should not therefore 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			
2,2',4,4',5,5'-HEXACB (PCB-153) (13C12, 99%) (185376-58-3)				
LC50 fish 1	Pimephales promelas (fathead minnow) - 96 h			
EC50 Daphnia 1	Daphnia magna (Water flea) - 48 h			

#### 12.2. Persistence and degradability

2,4'-DICB (PCB-8) (13C12, 98%) (34883-43-7 (Unlabeled))			
Persistence and degradability Not available.			
3,3',4,5'-TETRACB (PCB-79) (13C12, 99%) (41464-48-6 (Unlabeled))			
Persistence and degradability	Not available.		
12.3. Bioaccumulative potential			
EPA METHOD 1668A/B/C ALT FIELD SPIKE S	OLUTION 5000 NG/ML IN NONANE		
Log Pow	5.65		
N-NONANE UNLABELED (111-84-2)			
Log Pow	5.65		
Bioaccumulative potential	Indication of bioaccumulation.		
2,4'-DICB (PCB-8) (13C12, 98%) (34883-43-7 (	Unlabeled))		
Log Pow	5.242		
Bioaccumulative potential Not available.			
3,3',4,5'-TETRACB (PCB-79) (13C12, 99%) (41	464-48-6 (Unlabeled))		
Bioaccumulative potential Not available.			
2,2',4,4',5,5'-HEXACB (PCB-153) (13C12, 99%)	) (185376-58-3)		
Log Pow 7.75			
12.4. Mobility in soil			
2,4'-DICB (PCB-8) (13C12, 98%) (34883-43-7 (	Unlabeled))		
Ecology - soil	Not available.		
3,3',4,5'-TETRACB (PCB-79) (13C12, 99%) (41464-48-6 (Unlabeled))			
Ecology - soil Not available.			
12.5. Results of PBT and vPvB assessment			
No additional information available			
12.6. Other adverse effects			

No additional information available

## IN NONANE EC-5596

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

SECTION 13: Disposal consideration	ns
13.1. Waste treatment methods	
Regional legislation (waste)	: Waste materials should be disposed of under conditions which meet Federal, State, and Local environmental control regulations.
Product/Packaging disposal recommendations:	: 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.
<b>SECTION 14: Transport information</b>	
In accordance with ADR / RID / IMDG / IATA / A	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
	FLAIMABLE 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 a
	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 liquid
	with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55
	C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672).
	T2 - 1.5 178.274(d)(2) Normal 178.275(d)(3)
	TP1 - The maximum degree of filling must not exceed the degree of filling determined by the
	following: Degree of filling = 97 / 1 + a (tr - tf) Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling.
DOT Packaging Exceptions (49 CFR 173.xxx)	: 150
DOT Packaging Non Bulk (49 CFR 173.xxx)	
00 ( )	: 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	20
0.1	<b>30</b>
	1020
	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.
40/00/0047	ENL(Earlish 110) 0/40

## IN NONANE EC-5596

### 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

26, 2012 / Rules and Regulations	
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	
· ·	II of MARPOL 73/78 and the IBC Code
Not applicable	
Not applicable	
<b>SECTION 15: Regulatory information</b>	
15.1. US Federal regulations	
EPA METHOD 1668A/B/C ALT FIELD SPIKE S	OLUTION 5000 NG/ME IN NONANE
Listed on the United States TSCA (Toxic Substa	
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	Not subject to reporting requirements of the United States SARA Section 302.
Quantity (TPQ)	
SARA Section 311/312 Hazard Classes	Fire hazard Immediate (acute) health hazard
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313.
N-NONANE UNLABELED	
Listed on the United States TSCA (Toxic Substa	nces 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 reporting 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 reporting requirements of the United States SARA Section 313.
2,4'-DICB (PCB-8) (13C12, 98%) (34883-43-7)	Unlabeled))
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302.
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313.
3,3',4,5'-TETRACB (PCB-79) (13C12, 99%) (4	1464-48-6 (Unlabeled))
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302.
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313.
2,2',4,4',5,5'-HEXACB (PCB-153) (13C12, 99%	
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302.
SARA Section 311/312 Hazard Classes	Delayed (chronic) health hazard
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313.

#### 15.2. International regulations

### CANADA

EPA METHOD 1668A/B/C ALT FIELD SPIKE SOLUTION 5000 NG/ML IN NONANE	
Listed on the Canadian DSL (Domestic Substances List)	
N-NONANE UNLABELED	
Listed on the Canadian DSL (Domestic Substances List)	

#### 15.2.1. National regulations

## IN NONANE EC-5596

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

### N-NONANE UNLABELED

15.3. US State regulations EPA METHOD 1668A/B/C ALT FIELD SP U.S California - Proposition 65 - Carcinos		5000 NG/ML IN NONANE()			
	gens List	No			
U.S California - Proposition 65 - Developmental Toxicity		No			
U.S California - Proposition 65 - Reproductive Toxicity - Female		No			
U.S California - Proposition 65 - Reprodu Toxicity - Male	uctive	No			
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			
N-NONANE UNLABELED					
U.S California - U.S Califo Proposition 65 - Proposition Carcinogens List Developmen	65 -	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		
2,4'-DICB (PCB-8) (13C12, 98%) (34883-	43-7 (Unlabele	ed))			
U.S California - Proposition 65 - Carcinogens List Developmer	65 -	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)	
Yes Yes		Yes	Yes		
3,3',4,5'-TETRACB (PCB-79) (13C12, 99	%) (41464-48-6	(Unlabeled))	•		
U.S California - Proposition 65 - Carcinogens List Developmen	rnia - 65 -	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)	
Yes Yes		Yes	Yes		
2,2',4,4',5,5'-HEXACB (PCB-153) (13C12	. 99%) (185376	5-58-3)			
U.S California - U.S Califo		U.S California -	U.S California -	No significant risk level	
Proposition 65 - Proposition Carcinogens List Developmen		Proposition 65 - Reproductive Toxicity - Female	Proposition 65 - Reproductive Toxicity - Male	(NSRĽ)	
Yes Yes		Yes	Yes		
N-NONANE UNLABELED					
State or local regulations					
U.S Idaho - Non-Carcinogenic Toxic Air U.S New Jersey - Right to Know Hazard U.S Massachusetts - Right To Know List U.S Pennsylvania - RTK (Right to Know) U.S New York - Reporting of Releases P	ous Substance List	List	S		
2,4'-DICB (PCB-8) (13C12, 98%) (34883-	43-7 (Unlabele	ed))			
State or local regulations					
U.S Pennsylvania - RTK (Right to Know) U.S New Jersey - Right to Know Hazardo		List			
3,3',4,5'-TETRACB (PCB-79) (13C12, 99	%) (41464-48-6	(Unlabeled))			
State or local regulations	,,	, "			
U.S Pennsylvania - RTK (Right to Know) U.S New Jersey - Right to Know Hazardo		List			

### IN NONANE EC-5596

#### 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

### 2,2',4,4',5,5'-HEXACB (PCB-153) (13C12, 99%) (185376-58-3)

### State or local regulations

U.S. - Pennsylvania - RTK (Right to Know) List

U.S. - New Jersey - Right to Know Hazardous Substance 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: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
R33	Danger of cumulative effects
R36/37/38	Irritating to eyes, respiratory system and skin
R48	Danger of serious damage to health by prolonged exposure
R48/20/21/22	Harmful: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed
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
Ν	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.	2 0
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	
Physical	: 0 Minimal Hazard	

CIL Mixture SDS

## IN NONANE EC-5596

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

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