

Safety Data Sheet

according to Regulation (EC) No. 453/2010 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 07/08/2015 :

Revision date:

Version: 1.0

ULM-9091-S

SECTION 1. Identification	of the substance/mixture and of the company/undertaking
1.1. Product identifier	or the substance/mixture and or the company/undertaking
Product form	: Mixtures
Product name.	: TRIPHENYL PHOSPHATE UNLABELED 1 MG/ML IN ACETONITRILE
Product code	: ULM-9091-S
1.2. Relevant identified use	es of the substance or mixture and uses advised against
1.2.1. Relevant identified use	!S
Industrial/Professional use spec	: For professional use only.
1.2.2. Uses advised against	
No additional information available	
1.3. Details of the supplier	of the safety data sheet
Cambridge Isotope Laboratories, Ir 50 Frontage Road Andover, MA 01810 USA	nc.
USA: 1-800-322-1174 Int: 1-978 cilsales@isotope.com www.isoto	
Emergency telephone	number
Emergency numbers:	
Chemtrec: 1-800-424-9300 (24 ho International: 1-703-741-5970 (24	
SECTION 2: Hazards ident	tification
2.1. Classification of the su	ibstance or mixture
Classification according to Regu	ulation (EC) No. 1272/2008 [CLP]
	H225
Acute Tox. 4 (Oral)	H302
Acute Tox. 4 (Oral) Acute Tox. 4 (Dermal)	H302 H312
Acute Tox. 4 (Oral) Acute Tox. 4 (Dermal) Acute Tox. 4 (Inhalation:dust,mist)	H302 H312 H332
Acute Tox. 4 (Oral) Acute Tox. 4 (Dermal) Acute Tox. 4 (Inhalation:dust,mist) Eye Irrit. 2	H302 H312 H332 H319
Acute Tox. 4 (Oral) Acute Tox. 4 (Dermal) Acute Tox. 4 (Inhalation:dust,mist) Eye Irrit. 2 Full text of H-phrases: see section	H302 H312 H332 H319
Acute Tox. 4 (Oral) Acute Tox. 4 (Dermal) Acute Tox. 4 (Inhalation:dust,mist) Eye Irrit. 2 Full text of H-phrases: see section Classification according to Direct	H302 H312 H332 H319
Acute Tox. 4 (Oral) Acute Tox. 4 (Dermal) Acute Tox. 4 (Inhalation:dust,mist) Eye Irrit. 2 Full text of H-phrases: see section Classification according to Direct F; R11 Xn; R20/21/22	H302 H312 H332 H319
Acute Tox. 4 (Oral) Acute Tox. 4 (Dermal) Acute Tox. 4 (Inhalation:dust,mist) Eye Irrit. 2 Full text of H-phrases: see section Classification according to Direc F; R11 Xn; R20/21/22 Xi; R36	H302 H312 H332 H319 16 ctive 67/548/EEC or 1999/45/EC
Acute Tox. 4 (Oral) Acute Tox. 4 (Dermal) Acute Tox. 4 (Inhalation:dust,mist) Eye Irrit. 2 Full text of H-phrases: see section Classification according to Direc F; R11 Xn; R20/21/22 Xi; R36 Full text of R-phrases: see section	H302 H312 H332 H319 16 ctive 67/548/EEC or 1999/45/EC
Xn; R20/21/22 Xi; R36 Full text of R-phrases: see section Classification (GHS-US) Flam. Liq. 2	H302 H312 H332 H319 16 ctive 67/548/EEC or 1999/45/EC
Acute Tox. 4 (Oral) Acute Tox. 4 (Dermal) Acute Tox. 4 (Inhalation:dust,mist) Eye Irrit. 2 Full text of H-phrases: see section Classification according to Direct F; R11 Xn; R20/21/22 Xi; R36 Full text of R-phrases: see section Classification (GHS-US)	H302 H312 H332 H319 16 ctive 67/548/EEC or 1999/45/EC

Adverse physicochemical, human health and environmental effects

Lungs, Blood, Kidney, Liver, Central nervous system.

ULM-9091-S

Safety Data Sheet

according to Regulation (EC) No. 453/2010 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

2.2. Label elements

Labeling according to Regulation (EC) No. 1272/2008 [CLP]



Signal word (CLP)
Hazardous ingredients
Hazard statements (CLP)

Precautionary statements (CLP)

GHS02 GHS07

- : Danger
- : ACETONITRILE UNLABELED
 - H225 Highly flammable liquid and vapor
 H302+H312+H332 Harmful if swallowed, in contact with skin or if inhaled
 H319 Causes serious eve irritation
- : 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, gas, fume, mist, spray, vapors
- P264 Wash Both hands thoroughly after handling
- P270 Do no eat, drink or smoke when using this product
- P271 Use only outdoors or in a well-ventilated area

GHS-US labeling

Hazard pictograms (GHS-US)

Signal word (GHS-US)
Hazard statements (GHS-US)

Precautionary statements (GHS-US)

- GHS02 GHS07
- : Danger
- : H225 Highly flammable liquid and vapor
- H302+H312+H332 Harmful if swallowed, in contact with skin or if inhaled H319 - Causes serious eye irritation
- : 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 dust, fume, gas, mist, spray, vapors
 - P264 Wash Both hands thoroughly after handling
 - P270 Do no eat, drink or smoke when using this product
- P271 Use only outdoors or in a well-ventilated area

P280 - Wear eye protection, face protection, protective clothing, protective gloves

P301+P312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell P302+P352 - IF ON SKIN: Wash with plenty of soap and water

P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

 $\mathsf{P304}+\check{\mathsf{P}340}$ - IF INHALED: Remove victim to fresh air and keep at rest in a position 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 POISON CENTER/doctor/physician if you feel unwell
- P321 Specific treatment (see Hazard pictograms (CLP) on this label)
- P330 If swallowed, rinse mouth
- 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 for extinction

P403+P235 - Store in a well-ventilated place. Keep cool

P501 - Dispose of contents/container to Comply with applicable regulations.

2.3. Other hazards

No additional information available

ULM-9091-S

Safety Data Sheet

according to Regulation (EC) No. 453/2010 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 3: Composition/information on ingredients

Substances 3.1.

Not applicable 3.2 Mixturos

3.2. Mixtures			
Name	Product identifier	%	Classification according to Directive 67/548/EEC
ACETONITRILE UNLABELED	(CAS No) 75-05-8 (EC no) 200-835-2 (EC index no) 608-001-00-3	99.87	F; R11 Xi; R36 Xn; R20/21/22
TRIPHENYL PHOSPHATE UNLABELED	(CAS No) 115-86-6 (EC no) 204-112-2	0.13	N; R51/53
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
ACETONITRILE UNLABELED	(CAS No) 75-05-8 (EC no) 200-835-2 (EC index no) 608-001-00-3	99.87	Flam. Liq. 2, H225 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Eye Irrit. 2, H319
TRIPHENYL PHOSPHATE UNLABELED	(CAS No) 115-86-6 (EC no) 204-112-2	0.13	Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Name	Product identifier	%	Classification (GHS-US)
ACETONITRILE UNLABELED	(CAS No) 75-05-8	99.87	Flam. Liq. 2, H225 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Eye Irrit. 2A, H319

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

SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures general	: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
First-aid measures after inhalation	: Remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER/doctor/physician if you feel unwell.
First-aid measures after skin contact	: Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. Immediately call a POISON CENTER or doctor/physician. Specific measures (see Hazard pictograms (CLP) on this label). Wash with plenty of soap and water. Wash contaminated clothing before reuse.
First-aid measures after eye contact	: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
First-aid measures after ingestion	: Rinse mouth. Call a POISON CENTER/doctor/physician if you feel unwell.
4.2. Most important symptoms and effects	s, both acute and delayed
Symptoms/injuries after inhalation	: Danger of serious damage to health by prolonged exposure through inhalation. Harmful if inhaled.
Symptoms/injuries after skin contact	: Repeated exposure to this material can result in absorption through skin causing significant health hazard. Harmful in contact with skin.
Symptoms/injuries after eye contact	: Causes eye irritation.
Symptoms/injuries after ingestion	: Swallowing a small quantity of this material will result in serious health hazard.

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures	
5.1. Extinguishing media	
suitable extinguishing media	: Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.
5.2. Special hazards arising from the su	bstance or mixture
Fire hazard	: Highly flammable liquid and vapor.
Explosion hazard	: May form flammable/explosive vapor-air mixture.
Reactivity	: Vapors may form explosive mixture with air.
5.3. Advice for firefighters	
Firefighting instructions	: Use water spray to cool unopened containers.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.
10/12/2015	EN (English US) 3/10

ULM-9091-S

Safety Data Sheet

according to Regulation (EC) No. 453/2010 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTI	ON 6: Accidental release meas	ures	
6.1.	Personal precautions, protective equipment and emergency procedures		
General	measures	: Remove ignition sources. Use special care to avoid static electric charges. No naked lights. No smoking.	
6.1.1.	For non-emergency personnel		
Emerge	ncy procedures	: Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.	
6.1.2.	For emergency responders		
No addi	ional information available		
6.2.	Environmental precautions		
Avoid re	lease to the environment.		
6.3.	Methods and material for containmer	nt and cleaning up	
For cont	ainment	: Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet- brushing and place in container for disposal according to local regulations.	
6.4.	Reference to other sections		
No addi	ional information available		
SECT	ON 7: Handling and storage		
7.1.	Precautions for safe handling		
Addition	al hazards when processed	: Handle empty containers with care because residual vapors are flammable.	
Precauti	ons for safe handling	: No naked lights. No smoking. Use only non-sparking tools. Use only outdoors or in a well- ventilated area. Avoid breathing dust, mist or spray.	
Hygiene	measures	: Do no eat, drink or smoke when using this product. Wash Both hands thoroughly after handling.	
7.2.	Conditions for safe storage, including	g any incompatibilities	
Technic	al measures	: Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof electrical equipment.	
Storage	conditions	: Store at room temperature away from light and moisture.	
Incompa	tible materials	: Heat sources.	
7.3.	Specific end use(s)		
No addit	ional information available		

SECTION 8: Exposure controls/personal protection

8.1. Control parameters			
TRIPHENYL PHOSPHATE UNLABELED 1 MG/ML IN ACETONITRILE			
ACGIH TWA (ppm)	20.0000000000 ppm Lower Respiratory Tract irritation. Not classifiable as a human carcinogen.		
ACETONITRILE UNLABELED (75-05-8)			
ACGIH TWA (ppm)	20.000000000 ppm Lower Respiratory Tract irritation. Not classifiable as a human carcinogen.		
OSHA PEL (TWA) (ppm)	40.000000000 ppm		
OSHA PEL (STEL) (ppm)	60.000000000 ppm		
TRIPHENYL PHOSPHATE UNLABELED (115-86-6)			
ACGIH TWA (mg/m³)	3.000000000 mg/m ³ Remark: Not classifiable as a human carcinogen. Cholinesterase inhibition.		
	ACGIH TWA (ppm) O (75-05-8) ACGIH TWA (ppm) OSHA PEL (TWA) (ppm) OSHA PEL (STEL) (ppm) NLABELED (115-86-6)		

8.2. Exposure controls

Personal protective equipment

: Gloves. Protective clothing. Protective goggles. Self-contained breathing apparatus.

 $3.000000000 \text{ mg/m}^3$ Remark: Not classifiable as a human carcinogen. Cholinesterase inhibition.



Hand protection Eye protection

USA OSHA

: Wear safety glasses with side shields (or goggles) and a face shield.

: Wear suitable protective clothing and gloves.

OSHA PEL (TWA) (mg/m3)

Safety Data Sheet according to Regulation (EC) No. 453/2010 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Skin and body protection	
Respiratory protection	

: Wear suitable protective clothing. : Wear approved mask.

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 component of this mixture.			
Physical state	: Liquid		
Appearance	: Liquid, clear.		
Molecular mass	: 41.05 g/mol		
Color	: Colourless.		
Odor	: ether-like.		
Odor threshold	: No data available		
рН	: No data available		
Relative evaporation rate (butyl acetate=1)	: No data available		
Melting point	: -48 °C (-54°F)		
Freezing point	: No data available		
Boiling point	: 81 - 82 °C (178 - 180 °F)		
Flash point	: 2.0 °C (35.6 °F) - closed cup		
Self ignition temperature	: 523 °C (973 °F)		
Decomposition temperature	: No data available		
Flammability (solid, gas)	: Highly flammable liquid and vapor		
Vapor pressure	:73.18 hPa (54.89 mmHg) at 15°C (59 °F), 119.81 hPa (89.86 mmHg) at 25°C(77 °F)		
Relative vapor density at 20 °C	: 1.42 - (Air = 1.0)		
Relative density	: No data available		
Density	: 0.786 g/ml		
Solubility	: Water: 100 %		
Log Pow	: -0.34		
Log Kow	: No data available		
Viscosity, kinematic	: No data available		
Viscosity, dynamic	: No data available		
Explosive properties	: No data available		
Oxidizing properties	: No data available		
Explosive limits	: 4.4 - 16 vol %		
9.2. Other information			
No additional information available			
SECTION 10: Stability and reactivity			

SECT	ON 10: Stability and reactivity		
10.1.	Reactivity		
Vapors	Vapors may form explosive mixture with air.		
10.2.	Chemical stability		
See sto	See storage and expiration date on CoA.		
10.3.	Possibility of hazardous reactions		
No addi	No additional information available		
10.4.	Conditions to avoid		
Open fla	ame. Direct sunlight.		
10.5.	.5. Incompatible materials		
Acids, E	Acids, Bases, Oxidizing agents, Reducing agents, Alkali metals.		
10.6.	0.6. Hazardous decomposition products		
May release flammable gases.			
SECTION 11: Toxicological information			
11.1.	Information on toxicological effects		
Acute to	pxicity :	Harmful if swallowed. Harmful in contact with skin. Harmful if inhaled.	
TRIPHENYL PHOSPHATE UNLABELED 1 MG/ML IN ACETONITRILE			
LD50	oral rat	2460 mg/kg	
LD50	dermal rabbit	2000 mg/kg	
10/12/20	15	EN (English US)	5/10

ULM-9091-S

Safety Data Sheet according to Regulation (EC) No. 453/2010 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

TRIPHENYL PHOSPHATE UNLABELED 1 MC			
LC50 inhalation rat (mg/l)	≥ 26.8 mg/l		
LC50 inhalation rat (ppm)	7551 ppm - 8h		
ATE (oral)	500.000 mg/kg body weight		
ATE (dermal)	1100.000 mg/kg body weight		
ATE (gases)	4500.000 ppmV/4h		
ATE (vapors)	11.000 mg/l/4h		
ATE (dust, mist)	1.500 mg/l/4h		
ACETONITRILE UNLABELED (75-05-8)			
LD50 oral rat	2460 mg/kg		
LD50 dermal rabbit	2000 mg/kg		
LC50 inhalation rat (mg/l)	≥ 26.8 mg/l		
LC50 inhalation rat (ppm)	7551 ppm - 8h		
ATE (oral)	500.000 mg/kg body weight		
ATE (dermal)	2000.000 mg/kg body weight		
ATE (gases)	4500.000 ppmV/4h		
ATE (vapors)	11.000 mg/l/4h		
ATE (dust, mist)	1.500 mg/l/4h		
TRIPHENYL PHOSPHATE UNLABELED (115	-86-6)		
LD50 oral rat	> 20000 mg/kg		
LD50 dermal rabbit	> 7900 mg/kg		
Skin corrosion/irritation	: Not classified		
	Skin - rabbit - No skin irritation		
Serious eye damage/irritation	: Causes serious eye irritation.		
Conodo byo damago/intalion	Eyes - Rabbit - Irritating to eyes		
Respiratory or skin sensitization	: Did not cause sensitization on laboratory animals.		
	Buehler Test - guinea pig - Did not cause sensitisation on laboratory animals.		
Germ cell mutagenicity	: Not classified		
Carcinogenicity	: No evidence of carcinogenicity in animal studies (when indicated).		
Carcinogenicity			
Reproductive toxicity	: Animal testing did not show any effects on fertility.		
Specific target organ toxicity (single exposure)	: Not classified		
	The substance or mixture is not classified as specific target organ toxicant.		
Specific target organ toxicity (repeated	: Not classified		
exposure)	The substance or mixture is not classified as specific target organ toxicant.		
Aspiration hazard	: Not classified		
Potential Adverse human health effects and symptoms	: Harmful if swallowed. Harmful in contact with skin. Harmful if inhaled.		
Symptoms/injuries after inhalation	: Danger of serious damage to health by prolonged exposure through inhalation. Harmful if inhaled.		
Symptoms/injuries after skin contact	: Repeated exposure to this material can result in absorption through skin causing significant health hazard. Harmful in contact with skin.		
Symptoms/injuries after eye contact	: Causes eye irritation.		
Symptoms/injuries after ingestion	: Swallowing a small quantity of this material will result in serious health hazard.		

SECTION 12: Ecological information		
12.1. Toxicity		
TRIPHENYL PHOSPHATE UNLABELED 1 MG/ML IN ACETONITRILE		
LC50 fish 1	1640.00 mg/l Pimephales promelas (fathead minnow) - 96h	
EC50 Daphnia 1	3600 mg/l Daphnia magna (Water flea) - 48h	
NOEC (chronic)	640 mg/l Daphnia magna (Water flea) - 14d	
ACETONITRILE UNLABELED (75-05-8)		
LC50 fish 1	1640.00 mg/l Pimephales promelas (fathead minnow) - 96h	
EC50 Daphnia 1	3600 mg/l Daphnia magna (Water flea) - 48h	
NOEC (chronic)	640 mg/l Daphnia magna (Water flea) - 14d	

ULM-9091-S

Safety Data Sheet according to Regulation (EC) No. 453/2010 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

ccording to Regulation (EC) No. 453/2010 and according	g to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations
TRIPHENYL PHOSPHATE UNLABELED (115	
LC50 fish 1	0.87 mg/l Pimephales promelas (fathead minnow) - 96 h
EC50 Daphnia 1	1 mg/l Daphnia magna (Water flea) - 48 h
ErC50 (algae)	1 mg/l Desmodesmus subspicatus (green algae) - 72 h
12.2. Persistence and degradability	
TRIPHENYL PHOSPHATE UNLABELED 1 M	
Persistence and degradability	Biodegradability Result: - Readily biodegradable.
	Diouegradability itesuit iteauliy biouegradable.
ACETONITRILE UNLABELED (75-05-8)	
Persistence and degradability	Biodegradability Result: - Readily biodegradable.
TRIPHENYL PHOSPHATE UNLABELED (115	-86-6)
Persistence and degradability	No data available.
12.3. Bioaccumulative potential	
TRIPHENYL PHOSPHATE UNLABELED 1 M	G/ML IN ACETONITRILE
Log Pow	-0.34
Bioaccumulative potential	No bioaccumulation is to be expected (log Pow <= 4).
ACETONITRILE UNLABELED (75-05-8)	
Log Pow	-0.34
Bioaccumulative potential	No bioaccumulation is to be expected (log Pow <= 4).
TRIPHENYL PHOSPHATE UNLABELED (115	•
Log Pow	4.6
12.4. Mobility in soil	
TRIPHENYL PHOSPHATE UNLABELED 1 M	G/ML IN ACETONITRILE
Ecology - soil	Not expected to absorb on soil.
ACETONITRILE UNLABELED (75-05-8)	
Ecology - soil	Not expected to absorb on soil.
••	9.6()
TRIPHENYL PHOSPHATE UNLABELED (115 Ecology - soil	No data available.
12.5. Results of PBT and vPvB assessme	nt
No additional information available	
12.6. Other adverse effects	
Other adverse effects	: Avoid release to the environment.
SECTION 13: Disposal consideration	
13.1. Waste treatment methods	Weste meteriale about the discound of under and diving which must Endered. Otate, and I and
Regional legislation (waste)	: Waste materials should be disposed of under conditions which meet Federal, State, and Local environmental control regulations.
Waste disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.
Additional information	: Handle empty containers with care because residual vapors are flammable.
SECTION 14: Transport information	
In accordance with ADR / RID / ADNR / IMDG / I	CAO / IATA
14.1. UN number	
UN-No.(DOT)	: 1648
DOT NA no.	UN1648
14.2. UN proper shipping name	
DOT Proper Shipping Name	
DOT Proper Shipping Name Department of Transportation (DOT) Hazard	: Acetonitrile : 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120

Hazard labels (DOT)

Safety Data Sheet according to Regulation (EC) No. 453/2010 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations : 3 - Flammable liquid

Packing group (DOT) DOT Special Provisions (49 CFR 172.102)	 II - Medium Danger IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). Additional Requirement: Only liquids 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. T7 - 4 178.274(d)(2) Normal
DOT Packaging Exceptions (49 CFR 173.xxx)	: 150
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 202
DOT Packaging Bulk (49 CFR 173.xxx)	: 242
44.0 Additional information	
14.3. Additional information	
Other information	: No supplementary information available.
Overland transport	
Packing group (ADR)	: 11
Class (ADR)	: 3 - Flammable liquid
Hazard identification number (Kemler No.)	: 33
Classification code (ADR)	: F1
Danger labels (ADR)	: 3 - Flammable liquids
	3
Orange plates	33 1648
Tunnel restriction code	: D/E
Limited quantities (ADR)	1L
EAC	: •2YE
Excepted quantities (ADR)	: E2
Transport by sea	
DOT Vessel Stowage Location	: B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded.
DOT Vessel Stowage Other	: 40 - Stow "clear of living quarters"
MFAG-No	: 127
Air transport	
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 5L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 60 L
Civil Aeronautics Law	: Flammable liquids

ULM-9091-S

Safety Data Sheet

according to Regulation (EC) No. 453/2010 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

14.4.	Environmental hazards	
Other info	ormation	: No supplementary information available.
14.5.	Special precautions for user	
14.6.	Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	
Not appli	cable	
SECTI	ON 15: Regulatory information	
		I contraction of the second
15.1. US	Federal regulations	
TRIPHE	ENYL PHOSPHATE UNLABELED 1 M	G/ML IN ACETONITRILE
Listed of	on SARA Section 313 (Specific toxic che	emical listings)
SARA S	Section 311/312 Hazard Classes	Fire hazard
		Immediate (acute) health hazard
		Delayed (chronic) health hazard
ACETC	DNITRILE UNLABELED (75-05-8)	
Listed of	on SARA Section 313 (Specific toxic che	emical listings)
SARAS	Section 311/312 Hazard Classes	Fire bazard

SARA Section 311/312 Hazard Classes	Fire hazard Immediate (acute) health hazard Delayed (chronic) health hazard
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15.2. International regulations

CANADA

TRIPHENYL PHOSPHATE UNLABELED 1 MG/ML IN ACETONITRILE	
Listed on the Canadian DSL (Domestic Substances List) inventory.	
ACETONITRILE UNLABELED (75-05-8)	
Listed on the Canadian DSL (Domestic Substances List) inventory.	

15.2.1. National regulations

No additional information available

15.3. US State regulations

TRIPHENYL PHOSPHATE UNLABELED 1 MG/ML IN ACETONITRILE()	
State or local regulations	U.S Massachusetts - Right To Know List U.S Pennsylvania - RTK (Right to Know) List U.S New Jersey - Right to Know Hazardous Substance List This product does not contain any chemicals known to State of California to cause cancer,
	birth defects, or any other reproductive harm.

ACETONITRILE UNLABELED (75-05-8)

U.S. - Massachusetts - Right To Know List

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

U.S. - New Jersey - Right to Know Hazardous Substance List

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

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 (Dermal)	Acute toxicity (dermal) Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhalation) Category 4
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
,	Acute Tox. 4 (Inhalation) Acute Tox. 4 (Inhalation:dust,mist)

Safety Data Sheet according to Regulation (EC) No. 453/2010 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Aquatic Acute 1	Hazardous to the aquatic environment - Acute Hazard Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment - Chronic Hazard Category 1
Eye Irrit. 2	Serious eye damage/eye irritation Category 2
Flam. Liq. 2	Flammable liquids Category 2
H225	Highly flammable liquid and vapor
H302	Harmful if swallowed
H312	Harmful in contact with skin
H319	Causes serious eye irritation
H332	Harmful if inhaled
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
R11	Highly flammable
R20/21/22	Harmful by inhalation, in contact with skin and if swallowed
R36	Irritating to eyes
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
F	Highly flammable
N	Dangerous for the environment
Xi	Irritant
Xn	Harmful

NFPA health hazard	: 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.
NFPA fire hazard	: 3 - Liquids and solids that can be ignited under almost all ambient conditions.
NFPA reactivity	: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.
HMIS III Rating	
Health	: 2 Moderate Hazard - Temporary or minor injury may occur
Flammability	: 3 Serious Hazard
Physical	: 0 Minimal Hazard

CIL Mixture SDS

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