

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: 16/04/2015

Revision date:

Version: 1.0

CLM-9049-S

SECT	ION 1: Identification	of the substance/mixture and of the company/undertaking
1.1.	Product identifier	
Product	form	: Mixtures
Product	name.	: 3,5,6-TRICHLORO-2-PYRIDINOL (TCPY) (4,5,6-13C3, 99%) CP 97% 100 UG/ML ACETONITRILE
Product	code	: CLM-9049-S
1.2.	Relevant identified use	es of the substance or mixture and uses advised against
1.2.1.	Relevant identified use	95
Industri	al/Professional use spec	: For professional use only.
1.2.2.	Uses advised against	
No addi	tional information available	
1.3.	Details of the supplier	of the safety data sheet
50 Fron	dge Isotope Laboratories, li tage Road r, MA 01810	nc.
	-800-322-1174 Int: 1-978 @isotope.com www.isote	
	Emergency telephone	number
Emerge	ency numbers:	
0	·)	
Chemtr	ec: 1-800-424-9300 (24 h ional: 1-703-741-5970 (24	
Chemtre Internat	ec: 1-800-424-9300 (24 h ional: 1-703-741-5970 (24 ION 2: Hazards iden	4 hours) tification
Chemtre Internat	ec: 1-800-424-9300 (24 h ional: 1-703-741-5970 (24	4 hours) tification
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Chemtri Internat SECT 2.1. Classifi Flam. L Acute T Acute T Acute T	ec: 1-800-424-9300 (24 h ional: 1-703-741-5970 (24 ION 2: Hazards iden Classification of the su ication according to Regu iq. 2 iox. 4 (Oral) iox. 4 (Dermal) iox. 4 (Inhalation:dust,mist)	tification ubstance or mixture ulation (EC) No. 1272/2008 [CLP] H225 H302 H312 H332
Chemtri Internat SECT 2.1. Classif Flam. L Acute T Acute T Acute T Eye Irrit	ec: 1-800-424-9300 (24 h ional: 1-703-741-5970 (24 ION 2: Hazards iden Classification of the su ication according to Regu iq. 2 iox. 4 (Oral) iox. 4 (Dermal) iox. 4 (Inhalation:dust,mist)	4 hours) tification ubstance or mixture ulation (EC) No. 1272/2008 [CLP] H225 H302 H312 H312 H319
Chemtri Internat SECT 2.1. Classiff Flam. L Acute T Acute T Acute T Eye Irrit Full text Classiff	ec: 1-800-424-9300 (24 he ional: 1-703-741-5970 (24 ION 2: Hazards iden Classification of the su ication according to Regu iq. 2 fox. 4 (Oral) fox. 4 (Dermal) fox. 4 (Inhalation:dust,mist) fox. 2 t of H-phrases: see section	4 hours) tification ubstance or mixture ulation (EC) No. 1272/2008 [CLP] H225 H302 H312 H312 H319
Chemtru Internat SECT 2.1. Classifi Flam. L Acute T Acute T Acute T Eye Irrit Full text Classifi F; R11	ec: 1-800-424-9300 (24 he ional: 1-703-741-5970 (24 ION 2: Hazards iden Classification of the su ication according to Regu iq. 2 fox. 4 (Oral) fox. 4 (Dermal) fox. 4 (Inhalation:dust,mist) fox. 2 t of H-phrases: see section	tification ubstance or mixture ulation (EC) No. 1272/2008 [CLP] H225 H302 H312 H312 H319 16 ctive 67/548/EEC or 1999/45/EC
Chemtri Internat SECT 2.1. Classifi Flam. L Acute T Acute T Acute T Eye Irrit Full text Classifi F; R11 Full text	ec: 1-800-424-9300 (24 h ional: 1-703-741-5970 (24 ION 2: Hazards idem Classification of the su ication according to Regu iq. 2 fox. 4 (Oral) fox. 4 (Dermal) fox. 4 (Inhalation:dust,mist) for. 2 t of H-phrases: see section ication according to Direct t of R-phrases: see section	tification ubstance or mixture ulation (EC) No. 1272/2008 [CLP] H225 H302 H312 H312 H319 16 ctive 67/548/EEC or 1999/45/EC
Chemtri Internat SECT 2.1. Classifi Flam. L Acute T Acute T Acute T Eye Irrit Full text Classifi F; R11 Full text	ec: 1-800-424-9300 (24 hi ional: 1-703-741-5970 (24 ION 2: Hazards iden Classification of the su ication according to Regu iq. 2 fox. 4 (Oral) fox. 4 (Dermal) fox. 4 (Inhalation:dust,mist) for. 4 (Inhalation:dust,mist) for. 2 t of H-phrases: see section ication according to Direct t of R-phrases: see section ication (GHS-US)	tification ubstance or mixture ulation (EC) No. 1272/2008 [CLP] H225 H302 H312 H312 H319 16 ctive 67/548/EEC or 1999/45/EC

Adverse physicochemical, human health and environmental effects

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

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) N Hazard pictograms (CLP)	lo. 1272/2008 [CLP]
Signal word (CLD)	GHS02 GHS07
Signal word (CLP) Hazardous ingredients	: Danger : ACETONITRILE UNLABELED
Hazard statements (CLP)	: H225 - Highly flammable liquid and vapor
	H302+H312+H332 - Harmful if swallowed, in contact with skin or if inhaled H319 - Causes serious eye irritation
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 vapors, spray, mist, gas, fume, dust
	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)	
	GHS02 GHS07
Signal word (GHS-US)	: Danger
Hazard statements (GHS-US)	 H225 - Highly flammable liquid and vapor H302+H312+H332 - Harmful if swallowed, in contact with skin or if inhaled H319 - Causes serious eye irritation
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 ventilating, electrical, lighting equipment P242 - Use only non-sparking tools P243 - Take precautionary measures against static discharge P261 - Avoid breathing vapors, mist, spray, gas, dust, fume 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 protective gloves, protective clothing, face protection, eye protection

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

P304+P340 - 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.

Other hazards 2.3.

No additional information available

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 2.2 Missa

Nama	Product identifier	%	Classification according to
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	99.9873	F; R11 Xi; R36 Xn; R20/21/22
3,5,6-TRICHLORO-2-PYRIDINOL (TCPY) (4,5,6-13C3, 99%) CHEMICAL PURITY 97%	(CAS No) 6515-38-4 (Unlabeled) (EC no) 229-405-2	0.0127	Xn; R21/22 Xi; R41 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	99.9873	Flam. Liq. 2, H225 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Eye Irrit. 2, H319
3,5,6-TRICHLORO-2-PYRIDINOL (TCPY) (4,5,6-13C3, 99%) CHEMICAL PURITY 97%	(CAS No) 6515-38-4 (Unlabeled) (EC no) 229-405-2	0.0127	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318 Aquatic Chronic 2, H411
Name	Product identifier	%	Classification (GHS-US)
ACETONITRILE UNLABELED	(CAS No) 75-05-8	99.9873	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 measure	95
First-aid measures general	: Call a POISON CENTER or doctor/physician.
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. 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, 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 me	edical 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	ubstance 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.
09/02/2016	EN (English US) 3/10

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 measu	ires
6.1.	Personal precautions, protective equi	pment 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	
Emerger	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. No addit	For emergency responders ional information available	
6.2.	Environmental precautions	
Prevent	further leakage or spillage if safe to do so.	Do not let product enter drains. Discharge into the environment must be avoided.
6.3.	Methods and material for containment	t 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 addit	ional information available	
SECTI	ON 7: Handling and storage	
7.1.	Precautions for safe handling	
Additiona	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.
Hygiene	measures	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
7.2.	Conditions for safe storage, including	any incompatibilities
Technica	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	
SECTI	ON 8: Exposure controls/perso	nal protection

8.1. Control parameters

ACETONITRILE UNLABELED (75-05-8)		
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	20.000000000 ppm Lower Respiratory Tract irritation. Not classifiable as a human carcinogen.
USA NIOSH	NIOSH REL (TWA) (mg/m3)	34 mg/m ³ Forms Cyanide in the body.
USA NIOSH	NIOSH REL (TWA) (ppm)	20 ppm Forms Cyanide in the body.
USA OSHA	OSHA PEL (TWA) (mg/m3)	70 mg/m ³ The value in mg/m3 is approximate.
USA OSHA	OSHA PEL (TWA) (ppm)	40.0000000000 ppm The value in mg/m3 is approximate.

8.2. Exposure controls

Personal protective equipment

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



Hand protection Eye protection Skin and body protection Respiratory protection

- : Wear suitable protective clothing and gloves.
- : Wear safety glasses with side shields (or goggles) and a face shield.
 - : Wear suitable protective clothing.
 - : Wear approved mask.

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 9: Physical and chemical	ng to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations
9.1. Information on basic physical and	
The properties listed below are for the solvent, the main compo	
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)	: No data available
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	I
10.1. Reactivity	
Vapors may form explosive mixture with air.	
10.2. Chemical stability	
See storage and expiration date on CoA.	
10.3. Possibility of hazardous reactions	
No additional information available	

10.4. Conditions to avoid

Open flame. Direct sunlight.

10.5. Incompatible materials

Acids, Bases, Oxidizing agents, Reducing agents, Alkali metals.

10.6. Hazardous decomposition products

May release flammable gases.

SECTION 11: Toxicological information		
11.1. Information on toxicological effects		
Acute toxicity	: Harmful if swallowed. Harmful in contact with skin. Harmful if inhaled.	
3,5,6-TRICHLORO-2-PYRIDINOL (TCPY) (4,5,6	-13C3, 99%) CP 97% 100 UG/ML IN ACETONITRILE	
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	

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

3,5,6-TRICHLORO-2-PYRIDINOL (TCPY) (4,5,	.6-13C3, 99%) CP 97% 100 UG/ML IN ACETONITRILE
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
3,5,6-TRICHLORO-2-PYRIDINOL (TCPY) (4,5,	,6-13C3, 99%) CHEMICAL PURITY 97% (6515-38-4 (Unlabeled))
LD50 oral rat	800 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
ATE (oral)	800.000 mg/kg body weight
Skin corrosion/irritation	: Not classified
	Skin - rabbit - No skin irritation
Serious eye damage/irritation	: Causes serious eye irritation.
, ,	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).
Reproductive toxicity	: Animal testing did not show any effects on fertility.
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (single exposure)	
	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		
3,5,6-TRICHLORO-2-PYRIDINOL (TCPY) (4,5	i,6-13C3, 99%) CP 97% 100 UG/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	

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

3,5,6-TRICHLORO-2-PYRIDINOL (TCPY) (4.	5,6-13C3, 99%) CHEMICAL PURITY 97% (6515-38-4 (Unlabeled))
LC50 fish 1	1.5 mg/l Pimephales promelas (Fathead minnow) - 48 h
2.2. Persistence and degradability	
3,5,6-TRICHLORO-2-PYRIDINOL (TCPY) (4,	5,6-13C3, 99%) CP 97% 100 UG/ML IN ACETONITRILE
Persistence and degradability	Biodegradability Result: - Readily biodegradable.
ACETONITRILE UNLABELED (75-05-8)	
Persistence and degradability	Biodegradability Result: - Readily biodegradable.
	5 6 13 C3 00%) CHEMICAL DUDITY 07% (6515-28-4 (Uplabolod))
Persistence and degradability	5,6-13C3, 99%) CHEMICAL PURITY 97% (6515-38-4 (Unlabeled)) Biodegradability: Result: - Not readily biodegradable.
2.3. Bioaccumulative potential	
	5,6-13C3, 99%) CP 97% 100 UG/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).
3,5,6-TRICHLORO-2-PYRIDINOL (TCPY) (4,	5,6-13C3, 99%) CHEMICAL PURITY 97% (6515-38-4 (Unlabeled))
Log Pow	2.7
Bioaccumulative potential	Not available.
2.4. Mobility in soil	
3,5,6-TRICHLORO-2-PYRIDINOL (TCPY) (4,	5,6-13C3, 99%) CP 97% 100 UG/ML IN ACETONITRILE
Ecology - soil	Not expected to absorb on soil.
ACETONITRILE UNLABELED (75-05-8)	
Ecology - soil	Not expected to absorb on soil.
Ecology - soil	5,6-13C3, 99%) CHEMICAL PURITY 97% (6515-38-4 (Unlabeled)) Not available.
	1
2.5. Results of PBT and vPvB assessme	ent
lo additional information available	
2.6. Other adverse effects	
Other adverse effects	: Avoid release to the environment.
ECTION 13: Disposal consideratio	
•	
3.1. Waste treatment methods	ons
3.1. Waste treatment methods	ons
3.1. Waste treatment methods begional legislation (waste) Image: Comparison of the second s	 Waste materials should be disposed of under conditions which meet Federal, State, and Local
3.1. Waste treatment methods regional legislation (waste)	 Waste materials should be disposed of under conditions which meet Federal, State, and Loca environmental control regulations.
3.1. Waste treatment methods egional legislation (waste) /aste disposal recommendations dditional information	 Waste materials should be disposed of under conditions which meet Federal, State, and Loc environmental control regulations. Dispose in a safe manner in accordance with local/national regulations. Handle empty containers with care because residual vapors are flammable.
3.1. Waste treatment methods regional legislation (waste) Vaste disposal recommendations dditional information ECTION 14: Transport information	 Waste materials should be disposed of under conditions which meet Federal, State, and Loc environmental control regulations. Dispose in a safe manner in accordance with local/national regulations. Handle empty containers with care because residual vapors are flammable.
3.1. Waste treatment methods tegional legislation (waste) Vaste disposal recommendations udditional information SECTION 14: Transport information n accordance with ADR / RID / ADNR / IMDG /	 Waste materials should be disposed of under conditions which meet Federal, State, and Loca environmental control regulations. Dispose in a safe manner in accordance with local/national regulations. Handle empty containers with care because residual vapors are flammable.
3.1. Waste treatment methods tegional legislation (waste) Vaste disposal recommendations dditional information SECTION 14: Transport information n accordance with ADR / RID / ADNR / IMDG / 4.1. UN number	 Waste materials should be disposed of under conditions which meet Federal, State, and Loca environmental control regulations. Dispose in a safe manner in accordance with local/national regulations. Handle empty containers with care because residual vapors are flammable.
3.1. Waste treatment methods Regional legislation (waste) Vaste disposal recommendations vaditional information SECTION 14: Transport information n accordance with ADR / RID / ADNR / IMDG / 4.1. UN number UN-No.(DOT)	 Waste materials should be disposed of under conditions which meet Federal, State, and Loca environmental control regulations. Dispose in a safe manner in accordance with local/national regulations. Handle empty containers with care because residual vapors are flammable.
 3.1. Waste treatment methods acgional legislation (waste) Vaste disposal recommendations dditional information ECTION 14: Transport information accordance with ADR / RID / ADNR / IMDG / 4.1. UN number IN-No.(DOT) IOT NA no. 	 Waste materials should be disposed of under conditions which meet Federal, State, and Loca environmental control regulations. Dispose in a safe manner in accordance with local/national regulations. Handle empty containers with care because residual vapors are flammable.
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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

Booking group (DOT)	. II. Modium Dongor
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
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
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
14.4. Environmental hazards	
Other information	: No supplementary information available.

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

14.5. Special precautions for user

14.6. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information			
5.1. US Federal regulations			
3,5,6-TRICHLORO-2-PYRIDINOL (TCPY) (4,5,6-13C3, 99%) CP 97% 100 UG/ML IN ACETONITRILE			
Listed on SARA Section 313 (Specific toxic che	emical listings)		
SARA Section 311/312 Hazard Classes	Fire hazard Immediate (acute) health hazard Delayed (chronic) health hazard		
ACETONITRILE UNLABELED (75-05-8)			
Listed on SARA Section 313 (Specific toxic chemical listings)			
SARA Section 311/312 Hazard Classes	Fire hazard Immediate (acute) health hazard Delayed (chronic) health hazard		

15.2. International regulations

CANADA

3,5,6-TRICHLORO-2-PYRIDINOL (TCPY) (4,5,6-13C3, 99%) CP 97% 100 UG/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	
5,5,6-TRICHLORO-2-PYRIDINOL (TCPY) (4,5,6-13C3, 99%) CP 97% 100 UG/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
Aquatic Chronic 2	Hazardous to the aquatic environment - Chronic Hazard Category 2
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Eye Irrit. 2	Serious eye damage/eye irritation Category 2

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

Flam. Lig. 2	Flammable liquids Category 2
H225	Highly flammable liquid and vapor
H302	Harmful if swallowed
H312	Harmful in contact with skin
H318	Causes serious eye damage
H319	Causes serious eye irritation
H332	Harmful if inhaled
H411	Toxic to aquatic life with long lasting effects
R11	Highly flammable
R20/21/22	Harmful by inhalation, in contact with skin and if swallowed
R21/22	Harmful in contact with skin and if swallowed
R36	Irritating to eyes
R41	Risk of serious damage 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

: 3 Serious Hazar

: 0 Minimal 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