

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: 15/06/2020 Revision date: : Version: 1.0 ES-5637

SECTION 1: Identification of the su	bstance/mixture and of the company/undertaking
1.1. Product identifier	
Product form	: Mixtures
Product name	: DEUTERATED KOVATS-LEE RETENTION INDEX MIX 100 UG/ML IN METHYLENE CHLORIDE-D2
Product code	: ES-5637
1.2. Relevant identified uses of the sul	bstance or mixture and uses advised against
1.2.1. Relevant identified uses	
Main use category	: Professional use
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 safet	y data sheet
Cambridge Isotope Laboratories, Inc. 50 Frontage Road Andover, MA 01810 USA	
USA: 1-800-322-1174 Int: 1-978-749-8000 cilsales@isotope.com www.isotope.com	
Emergency telephone number	
Emergency numbers:	
Chemtrec: 1-800-424-9300 (24 hours) International: 1-703-741-5970 (24 hours)	
SECTION 2: Hazards identification	
2.1. Classification of the substance or	
Classification according to Regulation (EC)	No. 1272/2008 [CLP]
Acute Tox. 4 (Oral) H302	
Acute Tox. 4 (Dermal) H312	
Skin Irrit. 2 H315	
Eye Irrit. 2 H319	
Carc. 2 H351 STOT SE 3 H336	
STOT SE 3 H335 STOT RE 2 H373	
Full text of hazard classes and H-statements :	see section 16
Classification according to Directive 67/548 Xi; R36/37/38 Carc.Cat.3; R40 T; R48/25 R67 Xn; R21/22 Full text of R-phrases: see section 16	/EEC [DSD] or 1999/45/EC [DPD]

GHS-US classification

 Acute Tox. 4 (Oral)
 H302

 Acute Tox. 4 (Dermal)
 H312

 Skin Irrit. 2
 H315

 Eye Irrit. 2A
 H319

 Carc. 2
 H351

 STOT SE 3
 H336

 STOT SE 3
 H335

 STOT RE 2
 H373

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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

Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

Liver, Pancreas, Blood, Central nervous system, Heart, Kidney. Inhalation: anesthetic effects, nausea and drunkeness. Suspected of causing cancer (in contact with skin, if swallowed, if inhaled). May cause damage to organs (liver, blood, central nervous system) through prolonged or repeated exposure (if swallowed, if inhaled). May cause drowsiness or dizziness. Harmful in contact with skin. Harmful if swallowed. May cause respiratory irritation. Causes skin irritation. Causes serious eye irritation.

Signal word (CLP) : Warning tazard statements (CLP) : H302+H312 - Harmful if swallowed or in contact with skin H315 - Causes serious eye infration H316 - May cause damage to organs (central nervous system, blood, liver) through prolonged or repeated eyes organs (central nervous system, blood, liver) through prolonged or repeated eyes organs (central nervous system, blood, liver) through prolonged or repeated eyes (CLR) H316 - May cause damage to organs (central nervous system, blood, liver) through prolonged or repeated eyes (CLR) H316 - May cause damage to organs (central nervous system, blood, liver) through prolonged or repeated eyes (CLR) H316 - May cause damage to organs (central nervous system, blood, liver) through prolonged or repeated eyes (CLR) + M324 - M32	2.2. Label elements	
Signal word (CLP) : Warning Hazard statements (CLP) : H302+H312 - Harmful if swallowed or in contact with skin H319 - Gauses serious eye irritation H319 - Gauses serious eye irritation H335 - May cause drows investor H319 - Gauses serious eye irritation H319 - Gauses serious eye irritation H336 - May cause drows investor H335 - May cause drows investor (In contact with skin, If inhaled, If swallowed) H337 - May cause drows investor (In contact with skin, If inhaled, If swallowed) H337 - May cause drows investor (In contact with skin, If inhaled, If swallowed) H337 - May cause drows investor (In contact with skin, If inhaled, If swallowed) H337 - May cause drows investor (In contact with skin, If inhaled, If swallowed) H337 - May cause drows investor (In contact with skin, If inhaled, If swallowed) Precautionary statements (CLP) : : : Paid + P314 - P112 - Hardin if swallowed or in contact with skin : : H319 - Gauses serious eye irritation : : : H324 + P341 De / Hardin if swallowed or in contact with skin : : : H324 + P341 De / Hardin if swallowed or in contact with skin : : :	Labeling according to Regulation (EC) N	lo. 1272/2008 [CLP]
Signal word (CLP) : Warning tazard statements (CLP) : H302+H312 - Harnful if swallowed or in contact with skin H315 - Causes senses service services were inflation H315 - Causes services services were inflation H316 - Causes services were inflation H316 - Causes services services were inflation H316 - Causes services were inflation H316 - Causes services were inflation H316 - Causes demage to copans (central nervices system, blood, liver) through prolonged or repeated exposure (oral, inhalation) Precautionary statements (CLP) : P260 - Do not brants dust, turne, gas, mit, spray, vapors. P270 - Do not exit, dirik or smoke when using this product. P271 - Do not exit, dirik or smoke when using this product. P270 - Do not exit, dirik or smoke when using this product. P271 - Do not exit, which plendy divater. P301+P312 - IF SWALLOWED. Call a doctor, a POISON CENTER if you feal unwell. P304+P312 - IF SWALLOWED. P304+P312 - IF SWALLOWED. Cause services were irritation Hazard pictograms (GHS-US) : Warning H302+H312 - Harmful if swallowed or in contact with skin H319 - Causes services were irritation H336 - May cause drowsiness or dizziness Hazard pictograms (GHS-US) : Warning H302+H312 - Harmful if swallowed or in contact with skin H319 - Causes services were irritation H336 - May cause drowsiness or dizziness	Hazard pictograms (CLP)	
H3024H312 - Harmful If swallowed or in contact with skin H315 - Causes skin irritation H316 - Causes skin viriation H317 - Causes skin viriation H338 - May cause drowsiness or dzziness H339 - May cause dramage to organs (central nervous system, blood, liver) through prolonger or repeated exposure (ord. inhelation) Precautionary statements (CLP) P 264 - Wash Both hands horoughly dfor handing. P270 - Do not est. drink or smoke when using this product. P280 + Wash 20 - D NKIN: Wash with plenty of water. P301+P312 - IF SWALLOWED: Call a doctor. a POISON CENTER if you feel unwell. P302+P332 - IF CON SKIN: Wash with plenty of water. P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. H322 - Harmful If swallowed or in contact with skin H315 - Causes serious eye irritation H315 - Causes dramage to organs (blocd, central nervous system, liver, respiratory system through prolonged or repeated exposure (Dermal, Inhalation, oral) H315 - Suspected of causing cause (Dermal, Inhalation, oral) H315 - Suspected organs (blocd, central nervous system, liver, respiratory system through prolonged or		GHS08 GHS07
H316 - Causes skin irritation H319 - Causes serious eye irritation H336 - May cause respiratory irritation H336 - May cause drawgines or dizziness H337 - May cause drawgine to organs (central nervous system, blood, liver) through prolonged or repeated exposure (oral, inhalation) P260 - Do not breath dust, ir ume, gas, mist, spray, vapors. P271 - Do not breath dust, ir ume, gas, mist, spray, vapors. P280 - Wear protective coloning, portective gloves. P301+P312 - IF SWALLOWED. Call a doctor, a POISON CENTER if you feel unwell. P302+P325 - IF ON SKINL Wash with pelney of water. P304+P312 - IF SWALLOWED. Call a doctor, a POISON CENTER if you feel unwell. P302+P312 - IF ON SKINL Wash with pelney of water. P304+P310 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. GHS-US I abeling Hazard pictograms (GHS-US) Warning Hazard statements (GHS-US) I H302+H312 - Harmful if swallowed or in contact with skin H315 - Causes skin irritation H336 - May cause respiratory irritation H336 - May cause drawgined exposure (Cermal, Inhalation, oral) H336 - May ca	Signal word (CLP)	: Warning
P264 - Wash Both hands thoroughly after hands P264 - Wash Both hands thoroughly after hands P270 - Do not eat, drink or smoke when using this product. P271 - Use only outdoors or in a well-ventilated area. P280 - Wear protective clothing, protective gloves. P301+P312 - IF SWALLOWED: Call a doctor, a POISON CENTER if you feel unwell. P302+P312 - IF SWALLOWED: Call a doctor, a POISON CENTER if you feel unwell. P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. GHS-US labeling Image: Call a doctor, a POISON CENTER if you feel unwell. Call a doctor, a POISON CENTER if you feel unwell. Signal word (GHS-US) : Warning GHS07 GHS07 statements (GHS-US) : Warning H302+H312 - Harmful if swallowed or in contact with skin H315 - Causes skin irritation H316 - May cause drowsiness or diziness H315 - Supected of causing cancer (Dermal, Inhalation, oral) H315 - May cause drange to organs (blood, central nervous system, liver, respiratory system through prolonged or repeated exposure (Dermal, Inhalation, oral) Precautionary statements (GHS-US) : P201 - Obtain special instructions before use. P202 - Do not herathe dust, fume, gas, mist, spray, vapors. P224 - Wash Both hands thorough y after handling. P202 - Do not breathe dust, fume, gas, mist, spray, vapors. P224 - Wash Both hands thorough y after handling. <th>Hazard statements (CLP)</th> <th>H315 - Causes skin irritation H319 - Causes serious eye irritation H335 - May cause respiratory irritation H336 - May cause drowsiness or dizziness H351 - Suspected of causing cancer (in contact with skin, if inhaled, if swallowed) H373 - May cause damage to organs (central nervous system, blood, liver) through prolonged</th>	Hazard statements (CLP)	H315 - Causes skin irritation H319 - Causes serious eye irritation H335 - May cause respiratory irritation H336 - May cause drowsiness or dizziness H351 - Suspected of causing cancer (in contact with skin, if inhaled, if swallowed) H373 - May cause damage to organs (central nervous system, blood, liver) through prolonged
Hazard pictograms (GHS-US) :	Precautionary statements (CLP)	 P260 - Do not breathe dust, fume, gas, mist, spray, vapors. P264 - Wash Both hands thoroughly after handling. P270 - Do not eat, drink or smoke when using this product. P271 - Use only outdoors or in a well-ventilated area. P280 - Wear protective clothing, protective gloves. P301+P312 - IF SWALLOWED: Call a doctor, a POISON CENTER if you feel unwell. P302+P352 - IF ON SKIN: Wash with plenty of water.
Signal word (GHS-US) : Warning Hazard statements (GHS-US) : Warning Hazard statements (GHS-US) : H302+H312 - Harmful if swallowed or in contact with skin H315 - Causes skin irritation H319 - Causes serious eye irritation H336 - May cause drowsiness or dizziness H351 - Suspected of causing cancer (Dermal, Inhalation, oral) H373 - May cause drowsiness or dizziness H351 - Suspected of causing cancer (Dermal, Inhalation, oral) Precautionary statements (GHS-US) : P201 - Obtain special instructions before use. P202 - Do not handle until all safety precautions have been read and understood. P260 - Do not breathing dust, fume, gas, mist, spray, vapors. P261 - Avoid breathing dust, fume, gas, mist, spray, vapors. P264 - Wash Both hands thoroughly after handling. P270 - Do not eat, drink or smoke when using this product. P271 - Use only outdoors or in a well-ventilated area. P280 - Wear eye protection, frace protective clothing, protective gloves. P301+P312 - If swallowed: Call a doctor, a POISON CENTER if you feel unwell P302+P352 - If on skin: Wash with plenty of water P304+P330 - If in haled: Remove person to fresh air and keep comfortable for breathing P304+P330 - If in eyes; Rinse cautiously with water for several minutes. Remove conta lenses, if present and easy to do. Continue rinsing P304+P313 - If exposed or concerned: Get medical advice/attention. P312 - Call a doctor, a POISON CENTER if you feel unwell	GHS-US labeling	
Signal word (GHS-US) : Warning Hazard statements (GHS-US) : H302+H312 - Harmful if swallowed or in contact with skin H315 - Causes skin irritation H319 - Causes skin irritation H336 - May cause respiratory irritation H336 - May cause drowsiness or dizziness H315 - Suspected of causing cancer (Dermal, Inhalation, oral) H373 - May cause damage to organs (blood, central nervous system, liver, respiratory system through prolonged or repeated exposure (Dermal, Inhalation, oral) Precautionary statements (GHS-US) : P201 - Obtain special instructions before use. P202 - Do not handle until all safety precautions have been read and understood. P260 - Do not breathe dust, fume, gas, mist, spray, vapors. P261 - Avoid breathing dust, fume, gas, mist, spray, vapors. P264 - Wash Both hands thoroughly after handling. P270 - Do not 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 gloves. P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing P304+P340 - I inhaled: Remove person to fresh air and keep comfortable for breathing P304+P340 - I inhaled: Remove person to fresh air and keep comfortable for breathing P304+P340 - I inhaled: Remove person to fresh air and keep comfortable for breathing P304+P340 - I i	Hazard pictograms (GHS-US)	
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 H315 - Causes skin irritation H319 - Causes serious eye irritation H335 - May cause respiratory irritation H336 - May cause drowsiness or dizziness H351 - Suspected of causing cancer (Dermal, Inhalation, oral) H373 - May cause damage to organs (blood, central nervous system, liver, respiratory system through prolonged or repeated exposure (Dermal, Inhalation, oral) Precautionary statements (GHS-US) P 201 - Obtain special instructions before use. P202 - Do not handle until all safety precautions have been read and understood. P260 - Do not breathe dust, fume, gas, mist, spray, vapors. P261 - Avoid breathing dust, fume, gas, mist, spray, vapors. P264 - Wash Both hands thoroughly after handling. P270 - Do not 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 gloves. P301+P312 - If swallowed: Call a doctor, a POISON CENTER if you feel unwell P302+P352 - If on skin: Wash with plenty of water 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 contal lenses, if present and easy to do. Continue rinsing P308+P313 - If exposed or concerned: Get medical advice/attention. P312 - Call a doctor, a POISON CENTER if you feel unwell 	• • • •	Ū į
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	Precautionary statements (GHS-US)	 P202 - Do not handle until all safety precautions have been read and understood. P260 - Do not breathe dust, fume, gas, mist, spray, vapors. P261 - Avoid breathing dust, fume, gas, mist, spray, vapors. P264 - Wash Both hands thoroughly after handling. P270 - Do not 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 doctor, a POISON CENTER if you feel unwell P302+P352 - If on skin: Wash with plenty of water 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 P308+P313 - If exposed or concerned: Get medical advice/attention.
	45/00/2020	

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P314 - Get medical advice/attention if you feel unwell. P321 - Specific treatment (see Hazard pictograms (CLP) on this label) P330 - Rinse mouth. P332+P313 - If skin irritation occurs: Get medical advice/attention. P337+P313 - If eye irritation persists: Get medical advice/attention. P362 - Take off contaminated clothing and wash before reuse. P362+P364 - Take off contaminated clothing and wash it before reuse. P403+P233 - Store in a well-ventilated place. Keep container tightly closed. P405 - Store locked up.

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

2.3. Other hazards

PBT: not relevant - no registration required

SECTION 3: Composition/Information on ingredients

Substances 3.1.

Not applicable

3.2. Mixtures			
Name	Product identifier	%	Classification according to Directive 67/548/EEC
METHYLENE CHLORIDE UNLABELED	(CAS-No.) 75-09-2 (EC-No.) 200-838-9 (EC Index-No.) 602-004-00-3 (REACH-no) 01-2119480404-41	99.868	Xi; R36/37/38 Carc.Cat.3; R40 T; R48/25 R67 Xn; R21/22
TOLUENE-D8 (D, 99.5%)	(CAS-No.) 2037-26-5 (EC-No.) 218-009-5 (EC Index-No.) 601-021-00-3 (Unlabeled) (REACH-no) 01-2119471310-51	0.015	F; R11 Xi; R38 Xn; R65 Repr.Cat.3; R62 Repr.Cat.3; R63 R67 N; R51/53 Xn; R48/20
NAPHTHALENE (D8, 99.5%)	(CAS-No.) 1146-65-2 (EC-No.) 214-552-7 (EC Index-No.) 601-052-00-2 (Unlabeled)	0.015	F; R11 N; R50 Xn; R22 N; R51/53
BENZO[A]PYRENE (D12, 98%)	(CAS-No.) 63466-71-7 (EC-No.) 200-028-5 (Unlabeled) (EC Index-No.) 601-032-00-3 (Unlabeled)	0.015	Carc.Cat.1; R45 Muta.Cat.1; R46 Repr.Cat.1; R61 R42 Xi; R38 N; R50/53
CHRYSENE (D12, 98%)	(CAS-No.) 1719-03-5 (EC-No.) 205-923-4 (Unlabeled) (EC Index-No.) 601-048-00-0 (Unlabeled)	0.015	Carc.Cat.1; R45 Carc.Cat.2; R49 N; R50/53 Muta.Cat.3; R68
PHENANTHRENE (D10, 98%)	(CAS-No.) 1517-22-2 (EC-No.) 201-581-5 (Unlabeled)	0.015	Xn; R22 N; R50/53
N-DECANE (D22, 99%) 97% CHEMICAL PURITY	(CAS-No.) 16416-29-8 (EC-No.) 204-686-4 (Unlabeled)	0.015	Xn; R65 F; R11
N-EICOSANE (D42, 98%)	(CAS-No.) 62369-67-9 (EC-No.) 204-018-1 (Unlabeled)	0.015	Not classified
N-PENTADECANE (D32, 98%)	(CAS-No.) 36340-20-2 (EC-No.) 211-098-1 (Unlabeled)	0.015	Xn; R65
N-TETRACOSANE (D50, 98%)	(CAS-No.) 16416-32-3 (EC-No.) 211-474-5 (Unlabeled) (EC Index-No.)	0.015	Not classified

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
METHYLENE CHLORIDE UNLABELED	(CAS-No.) 75-09-2 (EC-No.) 200-838-9 (EC Index-No.) 602-004-00-3 (REACH-no) 01-2119480404-41	99.868	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Carc. 2, H351 STOT SE 3, H336 STOT SE 3, H335 STOT RE 2, H373
TOLUENE-D8 (D, 99.5%)	(CAS-No.) 2037-26-5 (EC-No.) 218-009-5 (EC Index-No.) 601-021-00-3 (Unlabeled) (REACH-no) 01-2119471310-51	0.015	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361 STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304
NAPHTHALENE (D8, 99.5%)	(CAS-No.) 1146-65-2 (EC-No.) 214-552-7 (EC Index-No.) 601-052-00-2 (Unlabeled)	0.015	Flam. Sol. 1, H228 Acute Tox. 4 (Oral), H302 Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
BENZO[A]PYRENE (D12, 98%)	(CAS-No.) 63466-71-7 (EC-No.) 200-028-5 (Unlabeled) (EC Index-No.) 601-032-00-3 (Unlabeled)	0.015	Skin Sens. 1, H317 Muta. 1B, H340 Carc. 1B, H350 Repr. 1B, H360 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410
CHRYSENE (D12, 98%)	(CAS-No.) 1719-03-5 (EC-No.) 205-923-4 (Unlabeled) (EC Index-No.) 601-048-00-0 (Unlabeled)	0.015	Muta. 2, H341 Carc. 1B, H350 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
PHENANTHRENE (D10, 98%)	(CAS-No.) 1517-22-2 (EC-No.) 201-581-5 (Unlabeled)	0.015	Acute Tox. 4 (Oral), H302 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
N-DECANE (D22, 99%) 97% CHEMICAL PURITY	(CAS-No.) 16416-29-8 (EC-No.) 204-686-4 (Unlabeled)	0.015	Flam. Liq. 3, H226 Asp. Tox. 1, H304
N-EICOSANE (D42, 98%)	(CAS-No.) 62369-67-9 (EC-No.) 204-018-1 (Unlabeled)	0.015	Not classified
N-PENTADECANE (D32, 98%)	(CAS-No.) 36340-20-2 (EC-No.) 211-098-1 (Unlabeled)	0.015	Asp. Tox. 1, H304
N-TETRACOSANE (D50, 98%)	(CAS-No.) 16416-32-3 (EC-No.) 211-474-5 (Unlabeled) (EC Index-No.)	0.015	Not classified
Name	Product identifier	%	GHS-US classification
METHYLENE CHLORIDE UNLABELED	(CAS-No.) 75-09-2	99.868	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Carc. 2, H351 STOT SE 3, H336 STOT SE 3, H335 STOT RE 2, H373
TOLUENE-D8 (D, 99.5%)	(CAS-No.) 2037-26-5	0.015	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361 STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Acute 2, H401
NAPHTHALENE (D8, 99.5%)	(CAS-No.) 1146-65-2	0.015	Flam. Sol. 1, H228 Acute Tox. 4 (Oral), H302 Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
BENZO[A]PYRENE (D12, 98%)	(CAS-No.) 63466-71-7	0.015	Skin Sens. 1, H317 Muta. 1B, H340 Carc. 1B, H350 Repr. 1B, H360 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
CHRYSENE (D12, 98%)	(CAS-No.) 1719-03-5	0.015	Muta. 2, H341 Carc. 1A, H350 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
PHENANTHRENE (D10, 98%)	(CAS-No.) 1517-22-2	0.015	Acute Tox. 4 (Oral), H302 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

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Name	Product identifier	%	GHS-US classification
N-DECANE (D22, 99%) 97% CHEMICAL PURITY	(CAS-No.) 16416-29-8	0.015	Flam. Liq. 3, H226 Asp. Tox. 1, H304
N-EICOSANE (D42, 98%)	(CAS-No.) 62369-67-9	0.015	Not classified
N-PENTADECANE (D32, 98%)	(CAS-No.) 36340-20-2	0.015	Asp. Tox. 1, H304
N-TETRACOSANE (D50, 98%)	(CAS-No.) 16416-32-3	0.015	Not classified

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 exposed or concerned: Get medical advice/attention. Call a poison center/doctor/physician if you feel unwell.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor/physician if you feel unwell.
First-aid measures after skin contact	: Wash skin with plenty of water. Take off contaminated clothing. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Rinse mouth. Call a poison center/doctor/physician if you feel unwell.
4.2. Most important symptoms and effect	ts, both acute and delayed
Symptoms/effects	May cause drowsiness or dizziness. Suspected of causing cancer (in contact with skin, if inhaled, if swallowed). May cause damage to organs (blood, central nervous system, liver, respiratory system) through prolonged or repeated exposure (in contact with skin, if inhaled, if swallowed).
Symptoms/effects after inhalation	: May be harmful if inhaled. May cause respiratory irritation.
Symptoms/effects after skin contact	: Harmful in contact with skin. Causes skin irritation.
Symptoms/effects after eye contact	: Causes serious eye irritation.
Symptoms/effects after ingestion	: Harmful if swallowed.
4.3. Indication of any immediate medica	attention and special treatment needed
Treat symptomatically.	
SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.
5.2. Special hazards arising from the su	bstance or mixture
Reactivity	: The product is non-reactive under normal conditions of use, storage and transport.
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. Wear recommended personal protective equipment.
SECTION 6: Accidental release mea	sures
6.1. Personal precautions, protective eq	uipment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures	: Use personal protective equipment as required. Ventilate spillage area. Do not breathe dust, fume, gas, mist, spray, vapors. Avoid contact with skin, eyes and clothing.
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	
Avoid release to the environment. Prevent furthe	r leakage or spillage if safe to do so. Do not let product enter drains.
6.3. Methods and material for containme	ent and cleaning up
For containment	: Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers 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.
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6.4. Reference to other sections					
For further information refer to section 13.					
SECTION 7: Handling and storage					
7.1. Precautions for safe	•				
read and underst gas, mist, vapors on clothing.		read and understood. Wear personal gas, mist, vapors. Use only outdoors on clothing.			
Hygiene measures		Wash contaminated clothing before re Always wash hands after handling the	euse. Do not eat, drink or smoke when using this product. e product.		
7.2. Conditions for safe s					
Technical measures		Store locked up. Store in a well-ventilated place. Keep container tightly closed. Containers which are opened should be properly resealed and kept upright to prevent leakage.			
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	ontrols/persona	al protection			
8.1. Control parameters					
DEUTERATED KOVATS-LEE	RETENTION INDE	X MIX 100 UG/ML IN METHYLENE C	HLORIDE-D2		
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	50.00000000 ppm Basis: USA. ACGIH Threshold Limit Values (TLV)		
Italy - Portugal - USA ACGIH	Remark (ACGIH)		Central Nervous system impairment. Carboxyhemoglobinemia. Substances for which there is a Biological Exposure Index or Indices (see BEI section). Confirmed animal carcinogen with unknown relevance to humans. Potential Occupational Carcinogen See Appendix A.		
USA OSHA	OSHA PEL (STEL) (mg/m³)	435 mg/m ³ Basis: California permissible exposure limits for chemical contaminants (Title 8, Article 107) see section 5202		
USA OSHA	OSHA PEL (STEL) (ppm)	125 ppm Basis: OSHA Specifially Regulated Chemicals/Carcinogens California permissible exposure limits for chemical contaminants (Title 8, Article 107) see section 5202		
USA OSHA	OSHA PEL (Ceilin	g) (mg/m³)	87 mg/m ³ Basis: California permissible exposure limits for chemical contaminants (Title 8, Article 107) see section 5202		
USA OSHA	OSHA PEL (Ceilin	g) (ppm)	25 ppm Basis: OSHA Specifically Regulated Chemicals/Carcinogens California permissible exposure limits for chemical contaminants (Title 8, Article 107) see section 5202		
USA OSHA	Remark (OSHA)		Substance listed; for mor information see OSHA document 1910.1052. See Table Z-2. This section applies to all occupational exposures to methylene chloride (MC). Chemical Abstracts Service Registry Number 75-09-2, in general industry, construction and shipyard employment. Methylene chloride (MC) means an organic compound with chemical formula CH2Cl2. Its Chemical Abstracts Service Registry Number is 75- 09-2. Its molecular weight is 8.9 g/mole. OSHA Specifically regulated carcinogen.		
TOLUENE-D8 (D, 99.5%) (203	-				
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	20.00000000 ppm Visual impairment, Female reproductive, Pregnancy loss		
USA OSHA	OSHA PEL (TWA)	(ppm)	100 ppm USA. OSHA - TABLE Z-1 Limits for Air		

USA OSHA

OSHA PEL (STEL) (ppm)

Contaminants 1910.1000

Contaminants 1910.1000

150 ppm USA. OSHA - TABLE Z-1 Limits for Air

DEUTERATED KOVATS-LEE RETENTION INDEX MIX 100 UG/ML IN

METHYLENE CHLORIDE-D2 ES-5637

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NAPHTHALENE (D8, 99.5%)	(1146-65-2)	
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	10.00000000 ppm Hematologic effects;Upper respiratory Tract irritation; Eye irritation; Eye damage. Not classifiable as a human carcinogen. Danger of cutaneous absorption. Cataract. Confirmed animal carcinogen with unknow relevance to humans. Adopted values or notations enclosed are those for which changes are proposed in the NIC. See Notice o Intended Changes (NIC).
Italy - Portugal - USA ACGIH	ACGIH STEL (ppm)	15 ppm Hematologic effects;Upper respiratory Tract irritation; Eye irritation; Eye damage. Not classifiable as a human carcinogen. Danger of cutaneous absorption. Cataract. Confirmed animal carcinogen with unknow relevance to humans. Adopted values or notations enclosed are those for which changes are proposed in the NIC. See Notice of Intended Changes (NIC).
Italy - Portugal - USA ACGIH	Remark (ACGIH)	ACGIH - Naphtalene CAS-No. 91-20-3; Parameters: 1 Naphthol+ & 2-Naphthol; Biological Exposure Indices (BEI) Remarks: End of shift (As soon as possible after exposure ceases)
USA NIOSH	NIOSH REL (TWA) (mg/m³)	50 mg/m ³ USA. Occupational Exposure Limits (OSHA - Table Z-1 Limits for Air Contaminants. The value in mg/m3 is approximate.
USA NIOSH	NIOSH REL (TWA) (ppm)	10 ppm USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants. The value in mg/m3 is approximate.
USA NIOSH	NIOSH REL (STEL) (mg/m ³)	75 mg/m ³ USA. NIOSH Recommended Exposure Limits. The value in mg/m3 is approximate.
USA NIOSH	NIOSH REL (STEL) (ppm)	10 ppm USA. NIOSH Recommended Exposure Limits. The value in mg/m3 is approximate.
USA OSHA	OSHA PEL (TWA) (mg/m³)	50 mg/m ³ USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
USA OSHA	OSHA PEL (TWA) (ppm)	10 ppm USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
USA OSHA	OSHA PEL (STEL) (mg/m³)	75 mg/m ³ USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
USA OSHA	OSHA PEL (STEL) (ppm)	15 ppm USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
USA OSHA	OSHA PEL (Ceiling) (mg/m ³)	0.5 mg/m ³ California permissible exposure limits for chemical contaminants (Title 8, Article 107)
USA OSHA	OSHA PEL (Ceiling) (ppm)	0.1 ppm California permissible exposure limits for chemical contaminants (Title 8, Article 107)
USA OSHA	Remark (OSHA)	TWA 10.000000 ppm/50.000000 mg/m3 : USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
PHENANTHRENE (D10, 98%)) (1517-22-2)	
Italy - Portugal - USA ACGIH	Remark (ACGIH)	ACGIH - Biological Exposure Indices (BEI)
USA NIOSH	NIOSH REL (TWA) (mg/m³)	0.1 mg/m ³ USA. NIOSH Recommended Exposure Limits. Remarks: Potential Occupational Carcinogen. NIOSH considers coal tar, coal tar pitch, and creosote to be coal tar products. cyclohexane-extractable fraction. See Appendix C. See Appendix A.
USA OSHA	OSHA PEL (TWA) (mg/m³)	0.2 mg/m ³ USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants. Remarks: 1910.1002 As used in §1910.1000 (Table Z 1), coal tar pitch volatiles include the fused polycyclic hydrocarbons which volatilize from the distillation residues of coal, petroleum (excluding asphalt), wood and other organic matter. Asphalt (CAS 8052-42-4, and CAS 64742-93-4) is not covered under the 'coal tar pitch volatiles' standard OSHA specifically regulated carcinogen.

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PHENANTHRENE (D10, 98%)		
USA OSHA	OSHA PEL (Ceiling) (mg/m ³)	0.2 mg/m ³ California permissible exposure limits for chemical contaminants (Title 8, Article 107)
CHRYSENE (D12, 98%) (1719	9-03-5)	
Italy - Portugal - USA ACGIH	Remark (ACGIH)	Chrysene 218-01-9 - 1-Hydropyrene (1-HP) - Urine - Remarks: End of shift at end of workweek. ACGIH - Biological Exposure Indices (BEI)
USA NIOSH	NIOSH REL (TWA) (mg/m³)	0.1 Potential Occupational Carcinogen. NIOSH considers coal tar, coal tar pitch, and creosote to be coal tar products. cylcohexane-extractable fraction. See Appendic C. See Appendix A. USA. NIOSH Recommended Exposure Limits
USA OSHA	OSHA PEL (TWA) (mg/m³)	0.2 mg/m ³ USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants 1910.1002 As used in Paragraph 1910.1000 (Table Z- 1), coal tar pitch volatiles include the fused polycyclic hydrocarbons which volatize from the distillation residues of coal, petroleum (excluding asphalt), wood, and other organic matter. Asphalt (CAS 8052-42-4, and CAS 64742-93-4) is not covered unde the 'coal tal pitch volatiles' standard. OSHA specifically regulated carcinogen.
USA OSHA	OSHA PEL (Ceiling) (mg/m ³)	0.2 mg/m ³ California permissible exposure limits for chemical contaminants (Title 8, Article 107)
USA OSHA	Remark (OSHA)	Remarks: Cancer. Substances for which there is a Biological Exposure Index or Indices (see BEI section) see BEI for Polycyclic Aromatic Hydrocarbons (PAHs) Exposure by all routes should be carefully controlled to levels as low as possible. Confirmed animal carcinogen with unknown relevance to humans.
BENZO[A]PYRENE (D12, 98%	() (63466-71-7)	
USA OSHA	OSHA PEL (TWA) (mg/m ³)	0.2 mg/m ³ Exposure should be carefully controlled to levels as low as possible.
METHYLENE CHLORIDE UN Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	50.00000000 ppm Basis: USA. ACGIH Threshold Lim Values (TLV)
Italy - Portugal - USA ACGIH	Remark (ACGIH)	Central Nervous system impairment. Carboxyhemoglobinemia. Substances for which there is a Biological Exposure Index or Indices (see BEI section). Confirmed animal carcinogen with unknown relevance to humans. Potential Occupational Carcinogen See Appendix A.
USA OSHA	OSHA PEL (STEL) (mg/m ³)	435 mg/m ³ Basis: California permissible exposure limits for chemical contaminants (Title 8, Article 107) see section 5202
USA OSHA	OSHA PEL (STEL) (ppm)	125 ppm Basis: OSHA Specifially Regulated Chemicals/Carcinogens California permissible exposure limits for chemical contaminants (Title 8, Article 107) see section 5202
USA OSHA	OSHA PEL (Ceiling) (mg/m ³)	87 mg/m ³ Basis: California permissible exposure limits for chemical contaminants (Title 8, Article 107) see section 5202
USA OSHA	OSHA PEL (Ceiling) (ppm)	25 ppm Basis: OSHA Specifically Regulated Chemicals/Carcinogens California permissible exposure limits for chemical contaminants (Title 8, Article 107) see section 5202

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METHYLENE CHLORIDE UN	· · · ·		
USA OSHA	Remark (OSHA)	Substance listed; for mor information see OSHA document 1910.1052. See Table Z-2. This section applies to all occupational exposures to methylene chloride (MC). Chemical Abstracts Service Registry Number 75-09-2, in general industry, construction and shipyard employment. Methylene chloride (MC) means an organic compound with chemical formula CH2Cl2. Its Chemical Abstracts Service Registry Number is 75- 09-2. Its molecular weight is 8.9 g/mole. OSHA Specifically regulated carcinogen.	
DEUTERATED KOVATS-LEE	RETENTION INDEX M	IX 100 UG/ML IN METHYLENE CHLORIDE-D2	
DNEL/DMEL (Workers)			
Acute - systemic effects, inhala	ation 706	mg/m³	
Acute - local effects, inhalation	353	mg/m³	
Long-term - systemic effects, o	lermal 4750) mg/kg bodyweight/day	
DNEL/DMEL (General populat	ion)		
Acute - systemic effects, inhala	ation 353	mg/m³	
Acute - local effects, inhalation	88.3	mg/m³	
Long-term - systemic effects,o	ral 0.06	mg/kg bodyweight/day	
Long-term - systemic effects, o	lermal 2395	5 mg/kg bodyweight/day	
PNEC (Water)			
PNEC aqua (freshwater)		mg/l	
PNEC aqua (marine water)		4 mg/l	
PNEC aqua (intermittent, fresh	water) 0.27	mg/l	
PNEC (Sediment)			
PNEC sediment (freshwater)		mg/kg dwt	
PNEC sediment (marine water) 1.61	mg/kg dwt	
PNEC (Soil)			
PNEC soil	0.58	3 mg/kg dwt	
PNEC (STP)			
PNEC sewage treatment plant	26 m	ng/l	
Exposure controls			
Appropriate engineering controls		sh hands and other exposed areas with mild soap and water before eating, drinking or king and when leaving work. Ensure good ventilation of the work station.	
Personal protective equipment	: Glo	ves. Protective clothing. Protective goggles. Self-contained breathing apparatus.	
Aterials for protective clothing	: Wea	ar suitable protective clothing and gloves.	
land protection		ar suitable protective clothing and gloves.	
ye protection		ar eye protection. Chemical goggles or face shield with safety glasses. Safety glasses.	
Skin and body protection		ar suitable protective clothing, gloves and eve/face protection.	
Respiratory protection		ase of inadequate ventilation wear respiratory protection. Approved supplied air respirator	
	trols : Avoid release to the environment.		

SECTION 9: Physical and chemica	al properties
9.1. Information on basic physical and	nd chemical properties
Physical state	: Liquid
Appearance	: Liquid
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	: No data available
Freezing point	: No data available

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Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Solubility	: No data available
Log Pow	: No data available
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
Explosion limits	: No data available

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.

10.2. Chemical stability

See storage and expiration date on CoA.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Heat. Sparks. Open flame. Direct sunlight. Protect from sunlight.

10.5. Incompatible materials

Alkali metals. Aluminum. Strong oxidizing agents. Bases. Magnesium. Strong acids. Strong bases. Vinyl.

10.6. Hazardous decomposition products

Carbon oxides (CO, CO2). Hydrogen chloride.

SECTION 11: Toxicological information

11.1. Information on toxicological effects Acute toxicity

: Oral: Harmful if swallowed. Dermal: Harmful in contact with skin.

DEUTERATED KOVATS-LEE RETENTION INDEX MIX 100 UG/ML IN METHYLENE CHLORIDE-D2				
LD50 oral rat	> 2000 mg/kg			
LD50 dermal rat	> 2000 mg/kg (OECD Test Guideline 402)			
LC50 inhalation rat (mg/l)	52000 mg/m ³			
ATE CLP (oral)	500.000 mg/kg body weight			
ATE CLP (dermal)	1100.000 mg/kg body weight			
ATE CLP (vapors)	52.000 mg/l/4h			
ATE CLP (dust, mist)	52.000 mg/l/4h			
TOLUENE-D8 (D, 99.5%) (2037-26-5)				
LD50 oral rat	> 5580 mg/kg			
LD50 dermal rabbit	12196 mg/kg			
LC50 inhalation rat (mg/l)	12500 - 28800 mg/m³ 4 h			
ATE CLP (dermal)	12196.000 mg/kg body weight			
ATE CLP (vapors)	12.500 mg/l/4h			
ATE CLP (dust, mist)	12.500 mg/l/4h			
NAPHTHALENE (D8, 99.5%) (1146-65-2)				
LD50 oral rat	490 mg/kg			
LD50 dermal rabbit	20000 mg/kg			

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NAPHTHALENE (D8, 99.5%) (1146-65-2)					
LC50 inhalation rat (mg/l)	> 0.4 mg/l/4h male and female (OECD Test Guideline 403)				
ATE CLP (oral)	490.000 mg/kg body weight				
ATE CLP (dermal)	20000.000 mg/kg body weight				
PHENANTHRENE (D10, 98%) (1517-22-2)					
ATE CLP (oral)	500.000 mg/kg body weight				
Additional information	LD50 Oral Mouse - 700 mg/kg				
CHRYSENE (D12, 98%) (1719-03-5)					
Additional information	LD50 Intraperitoneal - Mouse - > 320 mg/kg				
N-DECANE (D22, 99%) 97% CHEMICAL PUR					
LD50 oral rat	> 5000 mg/kg male and female (OECD Test Guideline 401)				
LD50 dermal rabbit	> 5000 mg/kg male and female (OECD Test Guideline 402)				
LC50 inhalation rat (mg/l)	> 5.6 mg/l male and female - 4 h (OECD Test Guideline 403)				
LC50 inhalation rat (ppm)	> 1369 ppm male - 8 h (OECD Test Guideline 403)				
N-PENTADECANE (D32, 98%) (36340-20-2)					
LD50 oral rat	> 5000 mg/kg (OECD Test Guideline 401)				
LD50 dermal rabbit	> 3160 mg/kg (OECD Test Guideline 402)				
METHYLENE CHLORIDE UNLABELED (75-09					
LD50 oral rat	> 2000 mg/kg				
LD50 dermal rat	> 2000 mg/kg (OECD Test Guideline 402)				
LC50 inhalation rat (mg/l)	52000 mg/m ³				
ATE CLP (oral)	500.000 mg/kg body weight				
ATE CLP (dermal)	1100.000 mg/kg body weight				
ATE CLP (vapors)	52.000 mg/l/4h				
ATE CLP (dust, mist)	52.000 mg/l/4h				
Skin corrosion/irritation	: Skin. rabbit. Irritating to skin. Result: 24 Hours				
Serious eye damage/irritation	: Eyes. rabbit. Result: Irritating to eyes. 24 Hours. (Draize Test)				
Respiratory or skin sensitization	: Not classified				
Germ cell mutagenicity	: rat. DNA Damage				
Carcinogenicity	: Carcinogenicity. rat. Inhalation. Tumorigenic: Carcinogenic by RTECS criteria. endocrine				
	system. Tumors. Limited evidence of a carcinogenic effect. Suspected human carcinogens				
CHRYSENE (D12, 98%) (1719-03-5)					
Additional information	OSHA specifically regulated carcinogen.				
Reproductive toxicity	: Not available				
Specific target organ toxicity – single exposure	: May cause respiratory irritation. May cause drowsiness or dizziness				
Specific target organ toxicity – repeated exposure	 Inhalation. May cause damage to organs (central nervous system) through prolonged or repeated exposure (Inhalation). Oral 				
Aspiration hazard	: Not classified				
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. stomach. 				
Symptoms/effects after inhalation	: May be harmful if inhaled. May cause respiratory irritation.				
Symptoms/effects after skin contact	: Harmful in contact with skin. Causes skin irritation.				
Symptoms/effects after eye contact	: Causes serious eve irritation.				
Symptoms/effects after ingestion	: Harmful if swallowed.				

SECTION 12: Ecological inform	nation
12.1. Toxicity	
Ecology - general	: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.
DEUTERATED KOVATS-LEE RETENT	TION INDEX MIX 100 UG/ML IN METHYLENE CHLORIDE-D2
DEUTERATED KOVATS-LEE RETENT	INDEX MIX 100 UG/ML IN METHYLENE CHLORIDE-D2 193 mg/l Pimephales promelas (fathead minnow) - 96 h

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TOLUENE-D8 (D, 99.5%) (2037-26-5)					
LC50 fish 1	74 - 340 mg/l Lepomis macrochirus (Bluegill) - 96h				
LC50 other aquatic organisms 1	10 mg/l Pseudokirchneriella subcapitata (Green algae) - 24 h				
EC50 Daphnia 1	8 mg/l Daphnia magna (Water flea) - 24h				
LC50 fish 2	7.63 mg/l Oncorhynchus mykiss (Rainbow trout) - 96 h				
EC50 Daphnia 2	6 mg/l Daphnia magna (Water flea) - Immobilization - 48 h				
ErC50 (algae)	245 mg/l Chlorella vulgaris (Fresh water algae) - 24 h				
LOEC (chronic)	8.04 mg/l Pimephales promelas (Fathead minnow) - 7 d				
NOEC (chronic)	5.44 mg/l Pimephales promelas (fathead minnow) - 7 d				
NAPHTHALENE (D8, 99.5%) (1146-65-2)					
LC50 fish 1	7.9 mg/l Pimephales promelas (fathead minnow) - 96 h (OECD Test Guideline 203)				
EC50 Daphnia 1	2.16 mg/l Daphnia magna (Water flea) - 48 h				
PHENANTHRENE (D10, 98%) (1517-22-2)					
LC50 fish 1	3.2 mg/l Oncorhynchus mykiss (rainbow trout) - 96.0 h				
EC50 Daphnia 1	0.86 mg/l Daphnia pulex (Water flea) - 24 h				
CHRYSENE (D12, 98%) (1719-03-5)					
EC50 Daphnia 1 1.9 mg/l Daphnia magna (Water flea) - 2 h					
BENZO[A]PYRENE (D12, 98%) (63466-71-7)	BENZO[A]PYRENE (D12, 98%) (63466-71-7)				
EC50 Daphnia 1	0.25 mg/l Daphnia magna (Water flea) - 48 h				
EC50 other aquatic organisms 1	0.02 mg/l Pseudokirchneriella subcapitata (green algae) - 72 h				
ErC50 (algae)	0.02 mg/l Pseudokirchneriella subcapitata (green algae) - 48 h				
N-DECANE (D22, 99%) 97% CHEMICAL PURI	TY (16416-29-8)				
LC50 fish 1	> 1000 mg/l semi-static test LC50 - Oncorhynchus mykiss (rainbow trout) - 96 h (OECD Test Guideline 203)				
EC50 Daphnia 1	> 1000 mg/l static test EC50 - Daphnia magna (Water flea) - 48 h				
EC50 other aquatic organisms 1	> 1000 static test EC50 - Pseudokirchneriella subcapitata - 72 h (OECD Test Guideline 201)				
N-PENTADECANE (D32, 98%) (36340-20-2)					
LC50 fish 1	> 1000 mg/l Other Fish - (OECD Test Guideline 203)				
ErC50 (algae)	> 10000 mg/l Skeletonema costatum - 72 h (ISO 10253)				
METHYLENE CHLORIDE UNLABELED (75-09-2)					
LC50 fish 1	193 mg/l Pimephales promelas (fathead minnow) - 96 h				
EC50 Daphnia 1	1682 mg/l Daphnia magna (Water flea) - 48 h				
NOEC (chronic)	130 mg/l Cyprinodon variegatus (sheepshead minnow) - 96 h				

12.2. Persistence and degradability

DEUTERATED KOVATS-LEE RETENTION INDEX MIX 100 UG/ML IN METHYLENE CHLORIDE-D2							
Biodegradation	< 26 % - Not readily biodegradable. (OECD Test Guideline 301C)						
NAPHTHALENE (D8, 99.5%) (1146-65-2)							
Persistence and degradability	Biodegradability aerobic - Exposure time 28 d. Result: 2% - Not biodegradable.						
N-DECANE (D22, 99%) 97% CHEMICAL PURITY (16416-29-8)							
Persistence and degradability	Aerobic - exposure time: 28 d.						
Biodegradation	83.2 % - Readily biodegradable. (OECD Test Guideline 301F)						
N-PENTADECANE (D32, 98%) (36340-20-2)							
Biodegradation	Result: Readily biodegradable. (OECD Test Guideline 303)						
METHYLENE CHLORIDE UNLABELED (75-09-2)							
Biodegradation	< 26 % - Not readily biodegradable. (OECD Test Guideline 301C)						
12.3. Bioaccumulative potential							
DEUTERATED KOVATS-LEE RETENTION IND	EX MIX 100 UG/ML IN METHYLENE CHLORIDE-D2						
Log Pow	1.25						
Bioaccumulative potential	Does not accumulate in organisms.						
NAPHTHALENE (D8, 99.5%) (1146-65-2)							
Log Pow	3.4 at 25 °C (77 °F)						
Bioaccumulative potential	Bioaccumulation: Fish- Bioconcentration factor (BCF): 427 - 1,158.						
PHENANTHRENE (D10, 98%) (1517-22-2)							
BCF fish 1	0.00255 mg/l Pimephales promelas (fathead minnow) - 28 d						
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.					
PHENANTHRENE (D10, 98%) (1517-22-2)					
Bioconcentration factor (BCF REACH)	5100				
Log Pow	4.46				
CHRYSENE (D12, 98%) (1719-03-5)					
Log Pow 5.73					
BENZO[A]PYRENE (D12, 98%) (63466-71-7)					
BCF fish 1	0.0005 mg/l Lepomis macrochirus (Bluegill) - 48 h				
Bioconcentration factor (BCF REACH)	3,208				
Log Pow	5.97				
Bioaccumulative potential Bioaccumulation: Lepomis macrochirus (Bluegill) - 48h. Bioconcentration factor (BCF):					
METHYLENE CHLORIDE UNLABELED (75-09-	2)				
Log Pow	1.25				
Bioaccumulative potential Does not accumulate in organisms.					
12.4. Mobility in soil					
12.5. Results of PBT and vPvB assessment	t				
DEUTERATED KOVATS-LEE RETENTION IND	EX MIX 100 UG/ML IN METHYLENE CHLORIDE-D2				
PBT: not relevant – no registration required					
METHYLENE CHLORIDE UNLABELED (75-09-	2)				
PBT: not relevant – no registration required					
12.6. Other adverse effects					
Other adverse effects	: Not available.				
SECTION 13: Disposal considerations	3				
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.				
	: Dispose of as unused product.				

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number	
UN-No.(DOT)	: 1593
DOT NA no.	UN1593
14.2. UN proper shipping name	
Proper Shipping Name (DOT)	: Dichloromethane
Class (DOT)	: 6.1 - Class 6.1 - Poisonous materials 49 CFR 173.132
Hazard labels (DOT)	: 6.1 - Poison
	POISON 6
Packing group (DOT)	: III - Minor Danger

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DOT Special Provisions (49 CFR 172.102)	 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 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, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672). IP8 - Ammonia solutions may be transported in rigid or composite plastic IBCs (31H1, 31H2 and 31HZ1) that have successfully passed, without leakage or permanent deformation, the hydrostatic test specified in 178.814 of this subchapter at a test pressure that is not less than 1.5 times the vapor pressure of the contents at 55 C (131 F). N36 - Aluminum or aluminum alloy construction materials are permitted only for halogenated hydrocarbons that will not react with aluminum. T7 - 4 178.274(d)(2) Normal
DOT Packaging Exceptions (49 CFR 173.xxx)	: 153
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 203
DOT Packaging Bulk (49 CFR 173.xxx)	: 241
DOT RQ	: 1000 lbs
Marine pollutant	: No
14.2 Additional information	
14.3. Additional information Other information	· No supplementary information available
Other Information	: No supplementary information available.
Overland transport	
Packing group (ADR)	: 111
Class (ADR)	: 6.1 - Toxic substances
Hazard identification number (Kemler No.)	: 60
Classification code (ADR)	: T1
Hazard labels (ADR)	: 6.1 - Toxic substances
Orange plates	60 1593
Tunnel restriction code (ADR)	
Limited quantities (ADR)	51
EAC	: 2Z
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	: 160
Air transport	
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 60 L

Civil Aeronautics Law : Toxic and infectious substances/Toxic substances

DOT Quantity Limitations Cargo aircraft only (49 : 220 L

CFR 175.75)

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14.4. Environmental hazards					
ther information : 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 applicable					
SECTION 15: Regulatory information					
15.1. US Federal regulations					
DEUTERATED KOVATS-LEE RETENTION IND Subject to reporting requirements of United States	EX MIX 100 UG/ML IN METHYLENE CHLORIDE-D2				
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	Immediate (acute) health hazard Delayed (chronic) health hazard				
TOLUENE-D8 (D, 99.5%) (2037-26-5)					
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 311/312 Hazard Classes	Fire hazard Immediate (acute) health hazard Delayed (chronic) health hazard				
SARA Section 313 - Emission Reporting	Subject to reporting requirements of United States SARA Section 313				
NAPHTHALENE (D8, 99.5%) (1146-65-2)					
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 311/312 Hazard Classes	Fire hazard Immediate (acute) health hazard Delayed (chronic) health hazard				
SARA Section 313 - Emission Reporting	Subject to reporting requirements of United States SARA Section 313				
PHENANTHRENE (D10, 98%) (1517-22-2)					
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	Subject to reporting requirements of United States SARA Section 313				
CHRYSENE (D12, 98%) (1719-03-5)					
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 311/312 Hazard Classes	Delayed (chronic) health hazard				
SARA Section 313 - Emission Reporting	Subject to reporting requirements of United States SARA Section 313				
BENZO[A]PYRENE (D12, 98%) (63466-71-7)					
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of United States SARA Section 302				
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Delayed (chronic) health hazard				
SARA Section 313 - Emission Reporting	Subject to reporting requirements of United States SARA Section 313				
N-DECANE (D22, 99%) 97% CHEMICAL PURITY					
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 Delayed (chronic) health hazard				
SARA Section 313 - Emission Reporting	Not subject to reporing requirements of the United States SARA Section 313.				
N-PENTADECANE (D32, 98%) (36340-20-2)					
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 reporting requirements of the United States SARA Section 313				
N-EICOSANE (D42, 98%) (62369-67-9)					
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 reporting requirements of the United States SARA Section 313

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N-TETRACOSANE (D50, 98%) (16416-32-3)					
SARA Section 302 Threshold Planning Quantity (TPQ) SARA 302: No chemicals in this material are subject to the reporting requirements of S Title III, Section 302					
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313				
METHYLENE CHLORIDE UNLABELED (75-09-2)					
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 Immediate (acute) health hazard Delayed (chronic) health hazard					
SARA Section 313 - Emission Reporting Subject to reporting requirements of United States SARA Section 313					

15.2. International regulations

CANADA

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Listed on the Canadian DSL (Domestic Substances List)

15.2.1. National regulations

No additional information available

15.3. US State regulations

DEUTERATED KOVATS-LEE RET U.S California - Proposition 65 - C U.S California - Proposition 65 - I Toxicity U.S California - Proposition 65 - F Toxicity - Female	Carcinogens List Developmental	Yes	HLORIDE-D2 ()				
U.S California - Proposition 65 - I Toxicity U.S California - Proposition 65 - F	Developmental						
Toxicity U.S California - Proposition 65 - F		No					
U.S California - Proposition 65 - F Toxicity - Female	Reproductive			No			
		No					
U.S California - Proposition 65 - Reproductive Toxicity - Male		No					
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					
TOLUENE-D8 (D, 99.5%) (2037-26	6-5)						
Proposition 65 - Prop	- California - position 65 - elopmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)			
No Yes		No	No				
NAPHTHALENE (D8, 99.5%) (114	6-65-2)						
Proposition 65 - Prop	- California - position 65 - elopmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)			
Yes No		No	No				
PHENANTHRENE (D10, 98%) (15	17-22-2)						
Proposition 65 - Prop	- California - position 65 - elopmental 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				
CHRYSENE (D12, 98%) (1719-03-	5)						
U.S California - U.S. Proposition 65 - Prop	- California - position 65 - elopmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)			
Yes No		No	No				

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BENZO[A]PYRENE (D12,	98%) (63466-71-7)			
U.S California -	U.S California -	U.S California -	U.S California -	No significant risk level
Proposition 65 - Carcinogens List	Proposition 65 - Developmental Toxicity	Proposition 65 - Reproductive Toxicity - Female	Proposition 65 - Reproductive Toxicity - Male	(NSRL)
Yes	No	No	No	
N-DECANE (D22, 99%) 97	% CHEMICAL PURITY (1641	6-29-8)		
U.S California -	U.S California -	U.S California -	U.S California -	No significant risk level
Proposition 65 - Carcinogens List	Proposition 65 - Developmental Toxicity	Proposition 65 - Reproductive Toxicity - Female	Proposition 65 - Reproductive Toxicity - Male	(NSRĽ)
No	No	No	No	
N-PENTADECANE (D32, 9	98%) (36340-20-2)			
U.S California -	U.S California -	U.S California -	U.S California -	No significant risk level
Proposition 65 - Carcinogens List	Proposition 65 - Developmental Toxicity	Proposition 65 - Reproductive Toxicity - Female	Proposition 65 - Reproductive Toxicity - Male	(NSRL)
No	No	No	No	
N-EICOSANE (D42, 98%)				
U.S California -	U.S California -	U.S California -	U.S California -	No significant risk level
Proposition 65 - Carcinogens List	Proposition 65 - Developmental Toxicity	Proposition 65 - Reproductive Toxicity - Female	Proposition 65 - Reproductive Toxicity - Male	(NSRL)
No	No	No	No	
N-TETRACOSANE (D50, 9				
U.S California -	U.S California -	U.S California -	U.S California -	No significant risk level
Proposition 65 - Carcinogens List	Proposition 65 - Developmental Toxicity	Proposition 65 - Reproductive Toxicity - Female	Proposition 65 - Reproductive Toxicity - Male	(NSRL)
No	No	No	No	
METHYLENE CHLORIDE				
U.S California -	U.S California -	U.S California -	U.S California -	No significant risk level
Proposition 65 - Carcinogens List	Proposition 65 - Developmental Toxicity	Proposition 65 - Reproductive Toxicity - Female	Proposition 65 - Reproductive Toxicity - Male	(NSRL)
Yes	No	No	No	
TOLUENE-D8 (D, 99.5%)	(2037-26-5)			
State or local regulations				
U.S Massachusetts - Rig U.S New Jersey - Right t U.S Pennsylvania - RTK	o Know Hazardous Substance	List		
NAPHTHALENE (D8, 99.5	%) (1146-65-2)			
State or local regulations				
U.S Massachusetts - Rig U.S Pennsylvania - RTK U.S New Jersey - Right t		List		
PHENANTHRENE (D10, 9	8%) (1517-22-2)			
State or local regulations				
U.S Massachusetts - Rig U.S Pennsylvania - RTK U.S New Jersey - Right t		List		
CHRYSENE (D12, 98%) (1	719-03-5)			
State or local regulations	•			
U.S Pennsylvania - RTK	(Right to Know) List o Know Hazardous Substance			

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METHYLENE CHLORIDE-D2 ES-5637

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BENZO[A]PYRENE (D12, 98%) (63466-71-7)		
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		
N-DECANE (D22, 99%) 97% CHEMICAL PURITY (16416-29-8)		
State or local regulations		
U.S Pennsylvania - RTK (Right to Know) List U.S New Jersey - Right to Know Hazardous Substance List		
N-PENTADECANE (D32, 98%) (36340-20-2)		
State or local regulations		
U.S Pennsylvania - RTK (Right to Know) List U.S New Jersey - Right to Know Hazardous Substance List		
N-EICOSANE (D42, 98%) (62369-67-9)		
N-EICOSANE (D42, 98%) (62369-67-9)		
N-EICOSANE (D42, 98%) (62369-67-9) State or local regulations		
State or local regulations U.S New Jersey - Right to Know Hazardous Substance List		
State or local regulations U.S New Jersey - Right to Know Hazardous Substance List U.S Pennsylvania - RTK (Right to Know) List		
State or local regulations U.S New Jersey - Right to Know Hazardous Substance List U.S Pennsylvania - RTK (Right to Know) List N-TETRACOSANE (D50, 98%) (16416-32-3)		
State or local regulations U.S New Jersey - Right to Know Hazardous Substance List U.S Pennsylvania - RTK (Right to Know) List N-TETRACOSANE (D50, 98%) (16416-32-3) State or local regulations U.S Pennsylvania - RTK (Right to Know) List		
State or local regulations U.S New Jersey - Right to Know Hazardous Substance List U.S Pennsylvania - RTK (Right to Know) List N-TETRACOSANE (D50, 98%) (16416-32-3) 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 (Dermal)	Acute toxicity (dermal) Category 4	
Acute Tox. 4 (Oral)		
()	Acute toxicity (oral) 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	
Carc. 1B	Carcinogenicity Category 1B	
Carc. 2	Carcinogenicity Category 2	
Eye Irrit. 2	Serious eye damage/eye irritation Category 2	
Flam. Liq. 2	Flammable liquids Category 2	
Flam. Liq. 3	Flammable liquids Category 3	
Flam. Sol. 1	Flammable solids Category 1	
Muta. 1B	Germ cell mutagenicity Category 1B	
Muta. 2	Germ cell mutagenicity Category 2	
Repr. 1B	Reproductive toxicity Category 1B	
Repr. 2	Reproductive toxicity Category 2	
Skin Irrit. 2	Skin corrosion/irritation Category 2	
Skin Sens. 1	Skin sensitization, Category 1	
STOT RE 2	Specific target organ toxicity (repeated exposure) Category 2	
STOT SE 3	Specific target organ toxicity (single exposure) Category 3	
STOT SE 3	Specific target organ toxicity (single exposure) Category 3	
H225	Highly flammable liquid and vapor	
H226	Flammable liquid and vapor	
H228	Flammable solid	

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H302	Harmful if swallowed
H304	May be fatal if swallowed and enters airways
H312	Harmful in contact with skin
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness
H340	May cause genetic defects
H341	Suspected of causing genetic defects
H350	May cause cancer
H351	Suspected of causing cancer
H360	May damage fertility or the unborn child
H361	Suspected of damaging fertility or the unborn child
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
R11	Highly flammable
R21/22	Harmful in contact with skin and if swallowed
R22	Harmful if swallowed
R36/37/38	Irritating to eyes, respiratory system and skin
R38	Irritating to skin
R40	Limited evidence of a carcinogenic effect
R42	May cause sensitization by inhalation
R45	May cause cancer
R46	May cause heritable genetic damage
R48/20	Harmful: danger of serious damage to health by prolonged exposure through inhalation
R48/25	Toxic: danger of serious damage to health by prolonged exposure if swallowed
R49	May cause cancer by inhalation
R50	Very toxic to aquatic organisms
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R61	May cause harm to the unborn child
R62	Possible risk of impaired fertility
R63	Possible risk of harm to the unborn child
R65	Harmful: may cause lung damage if swallowed
R67	Vapors may cause drowsiness and dizziness
R68	Possible risk of irreversible effects
F	Highly flammable
N	Dangerous for the environment
Т	Toxic
Xi	Irritant
Xn	Harmful

NFPA health hazard	: 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.
NFPA fire hazard	: 0 - Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand.
NFPA reactivity	: 0 - Material that in themselves are normally stable, even under fire conditions.
Hazard Rating	
Health	: 2 Moderate Hazard - Temporary or minor injury may occur
Flammability	: 0 Minimal Hazard
Physical	: 0 Minimal Hazard

CIL Multi-Solvent 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