

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 04/13/2018 Revision date: 04/13/2018 Version: 1.0

SECTION 1: Identification	
1.1. Identification	
Product form	: Mixtures
Product name	: HS Hardener
Product code	: DCH-93-4
I.2. Recommended use and restrict	ions on use
No additional information available	
1.3. Supplier	
Uni-Flow Speciality Coatings	
T 502-548-7035	
1.4. Emergency telephone number	
SECTION 2: Hazard(s) identificat	ion
2.1. Classification of the substance	
GHS US classification	
Flammable liquids Category 3	Flammable liquid and vapour
Acute toxicity (oral) Category 4	Harmful if swallowed
Acute toxicity (inhalation:vapour) Category Skin corrosion/irritation Category 2	1 Fatal if inhaled Causes skin irritation
Serious eye damage/eye irritation Category	•
Respiratory sensitization, Category 1	May cause an allergy or asthma symptoms or breathing difficulties if inhaled
Skin sensitization, Category 1	May cause an allergic skin reaction
Germ cell mutagenicity Category 1B Carcinogenicity Category 2	May cause genetic defects Suspected of causing cancer
Specific target organ toxicity (single exposu	
2.2. GHS Label elements, including	precautionary statements
GHS US labeling	
Hazard pictograms (GHS US)	
Signal word (GHS US)	GHS02 GHS06 GHS07 GHS08
Hazard statements (GHS US)	: Danger : Flammable liquid and vapour
nazaru statements (GHS 03)	Harmful if swallowed
	Causes skin irritation
	May cause an allergic skin reaction
	Causes serious eye irritation Fatal if inhaled
	May cause an allergy or asthma symptoms or breathing difficulties if inhaled
	May cause respiratory irritation
	May cause genetic defects Suspected of causing cancer
Precautionary statements (GHS US)	: Obtain special instructions before use.
	Do not handle until all safety precautions have been read and understood.
	Keep away from heat/sparks/open flames/hot surfaces No smoking.
	Keep container tightly closed.
	Ground/Bond container and receiving equipment Use explosion-proof electrical/ventilating/lighting equipment
	Use only non-sparking tools.
	Take precautionary measures against static discharge.
	Do not breathe dust, fume, gas, mist, vapors, spray Avoid breathing dust/fume/gas/mist/vapors/spray

Avoid breathing dust/fume/gas/mist/vapors/spray. Wash hands, forearms and face thoroughly after handling.

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	Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Contaminated work clothing must not be allowed out of the workplace Wear protective gloves/protective clothing/eye protection/face protection.
	[In case of inadequate ventilation] wear respiratory protection.
	If swallowed: Call a poison center or doctor if you feel unwell
	If on skin: Wash with plenty of water
	If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower
	If inhaled: Remove person to fresh air and keep comfortable for breathing
	If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for breathing
	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present
	and easy to do. Continue rinsing
	If exposed or concerned: Get medical advice/attention.
	Immediately call a poison center or doctor Call a poison center or doctor if you feel unwell
	Specific treatment is urgent (see supplemental first aid instruction on this label)
	Specific treatment (see supplemental first aid instruction on this label)
	Rinse mouth.
	If skin irritation occurs: Get medical advice/attention.
	If skin irritation or rash occurs: Get medical advice/attention.
	If eye irritation persists: Get medical advice/attention. If experiencing respiratory symptoms: Call a poison center or doctor
	Take off contaminated clothing and wash it before reuse.
	Wash contaminated clothing before reuse.
	In case of fire: Use media other than water to extinguish.
	Store in a well-ventilated place. Keep container tightly closed.
	Store in a well-ventilated place. Keep cool. Store locked up.
	Dispose of contents/container to hazardous or special waste collection point, in accordance
	with local, regional, national and/or international regulation
.3. Other hazards which do not result in	1 classification
o additional information available	
4. Unknown acute toxicity (GHS US)	
ot applicable	
ECTION 3: Composition/Informatio	n on ingredients
.1. Substances	

Not applicable

3.2. Mixtures

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Name	Product identifier	%	GHS US classification
Solvent naphtha (petroleum), light arom., Low boiling point naphtha - unspecified, [A complex combination of hydrocarbons obtained from distillation of aromatic streams. It consists predominantly of aromatic hydrocarbons having carbon numbers predominantly in the range of C8 through C10 and boiling in the range of approximately 135°C to 210°C (275°F to 410°F).]	(CAS-No.) 64742-95-6	~ 47.84	Flam. Liq. 2, H225 Muta. 1B, H340 Carc. 1B, H350 Asp. Tox. 1, H304
Hexamethylene diisocyanate oligomers, Isocyanurate	(CAS-No.) 28182-81-2	~ 41.4	Not classified
1,2,4-Trimethylbenzene	(CAS-No.) 95-63-6	1.38 - 19.71	Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation), H332 Acute Tox. 4 (Inhalation:vapour), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Aquatic Chronic 2, H411
N-Butyl Acetate	(CAS-No.) 123-86-4	~ 2.3	Flam. Liq. 3, H226 STOT SE 3, H336
cumene	(CAS-No.) 98-82-8	0.115 - 0.864	Flam. Liq. 3, H226 Carc. 1B, H350 STOT SE 3, H335 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
mesitylene	(CAS-No.) 108-67-8	0.23 - 0.81	Flam. Liq. 3, H226 STOT SE 3, H335 Aquatic Chronic 2, H411
1,6-diisocyanatohexane	(CAS-No.) 822-06-0	0 - 0.108	Acute Tox. 4 (Oral), H302 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Resp. Sens. 1, H334 Skin Sens. 1, H317 STOT SE 3, H335

Full text of hazard classes and H-statements : see section 16

SECTIO	ON 4: First-aid measures		
4.1.	Description of first aid measures		
First-aid ı	irst-aid measures general : Call a physician immediately.		
First-aid ı	measures after inhalation :	Remove person to fresh air and keep comfortable for breathing. Call a physician immediately.	
First-aid ı	measures after skin contact :	Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.	
First-aid ı	measures after eye contact	Rinse eyes with water as a precaution.	
First-aid ı	measures after ingestion	Rinse mouth. Call a poison center/doctor/physician if you feel unwell.	
4.2.	Most important symptoms and effects	(acute and delayed)	
Symptom	s/effects after inhalation :	May cause respiratory irritation. May cause an allergy or asthma symptoms or breathing difficulties if inhaled.	
Symptom	s/effects after skin contact :	Irritation. May cause an allergic skin reaction.	
4.3.	4.3. Immediate medical attention and special treatment, if necessary		
Treat symptomatically.			
SECTIO	ON 5: Fire-fighting measures		
5.1.	Suitable (and unsuitable) extinguishin	g media	
Suitable e	extinguishing media :	Water spray. Dry powder. Foam. Carbon dioxide.	
5.2.	Specific hazards arising from the cher	nical	
Fire haza	rd :	Flammable liquid and vapour.	
Reactivity		Flammable liquid and vapour.	
5.3.	5.3. Special protective equipment and precautions for fire-fighters		
Protection	Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.		

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SECTION 6: Accidental release meas	sures		
6.1. Personal precautions, protective equipment and emergency procedures			
6.1.1. For non-emergency personnel			
Emergency procedures	: No open flames, no sparks, and no smoking. Only qualified personnel equipped with suitable protective equipment may intervene. Do not breathe dust, fume, gas, mist, vapors, spray.		
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. Notify authorit	ies if product enters sewers or public waters.		
6.3. Methods and material for containme	ent and cleaning up		
Methods for cleaning up	: Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.		
Other information	: Dispose of materials or solid residues at an authorized site.		
6.4. Reference to other sections			
For further information refer to section 13.			
SECTION 7: Handling and storage			
7.1. Precautions for safe handling			
Precautions for safe handling	: Ensure good ventilation of the work station. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapors may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Take all necessary technical measures to avoid or minimize the release of the product on the workplace. Limit quantities of product at the minimum necessary for handling and limit the number of exposed workers. Provide local exhaust or general room ventilation. Floors, walls and other surfaces in the hazard area must be cleaned regularly. Do not breathe dust, fume, gas, mist, vapors, spray. Avoid contact with skin and eyes.		
Hygiene measures	: Separate working clothes from town clothes. Launder separately. Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.		

7.2.	Conditions for safe storage	, including any incompatibilities
Technica	l measures	: Ground/bond container and receiving equipment.
Storage	conditions	: Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up.

.1. Control pa	arameters	
HS Hardener		
ACGIH	ACGIH TWA (ppm)	100 ppm
ACGIH	ACGIH STEL (ppm)	150 ppm
ACGIH	Remark (ACGIH)	URT & eye irr; CNS impair
OSHA	OSHA PEL (TWA) (mg/m ³)	435 mg/m ³
OSHA	OSHA PEL (TWA) (ppm)	100 ppm
Hexamethylene diisocyanate oligomers, Isocyanurate (28182-81-2)		
Not applicable		
N-Butyl Acetate (1	23-86-4)	
ACGIH	ACGIH TWA (ppm)	150 ppm (n-Butyl acetate; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)
ACGIH	ACGIH STEL (ppm)	200 ppm (n-Butyl acetate; USA; Short time value; TLV - Adopted Value)
solvent naphtha (p	petroleum), light aromatic (64742-95-6)	
ACGIH	ACGIH TWA (mg/m ³)	200 mg/m ³

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solvent naphtha (pe	etroleum), light aromatic (64742-95-6)	
ACGIH	ACGIH TWA (ppm)	200 ppm
OSHA	OSHA PEL (TWA) (ppm)	200
OSHA	OSHA PEL (STEL) (ppm)	500
1,2,4-Trimethylbenz	zene (95-63-6)	· · · · · · · · · · · · · · · · · · ·
ACGIH	ACGIH TWA (ppm)	25 ppm (Trimethyl benzene (mixed isomers); USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)
mesitylene (108-67-	8)	
Not applicable		
cumene (98-82-8)		
ACGIH	ACGIH TWA (ppm)	50 ppm (Cumene; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)
ACGIH	Remark (ACGIH)	Lung cancer; liver and lung dam; A2 (Suspected Human Carcinogen: Human data are accepted as adequate in quality but are conflicting or insufficient to classify the agent as a confirmed human carcinogen; OR, the agent is carcinogenic in experimental animals at dose(s), by route(s) of exposure, at site(s), of histologic type(s), or by mechanism(s) considered relevant to worker exposure. The A2 is used primarily when there is limited evidence or carcinogenicity in humans and sufficient evidence of carcinogenicity in experimental animals with relevance to humans)
OSHA	OSHA PEL (TWA) (mg/m ³)	245 mg/m³
OSHA	OSHA PEL (TWA) (ppm)	50 ppm
1,6-diisocyanatohe	xane (822-06-0)	I
Not applicable		

Not applicable

8.2. Appropriate engineering controls

- Appropriate engineering controls Environmental exposure controls
- : Ensure good ventilation of the work station.: Avoid release to the environment.
- 8.3. Individual protection measures/Personal protective equipment

Hand protection:

Protective gloves

Eye protection:

Safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

Wear respiratory protection.

9.1. Information on basic	physical and chemical properties
Physical state	: Liquid
Color	: Mixture contains one or more component(s) which have the following colour(s): Colourless No data available on colour Colourless to light yellow
Odor	 There may be no odour warning properties, odour is subjective and inadequate to warn of overexposure. Mixture contains one or more component(s) which have the following odour(s): Aromatic odour No data available on odour Irritating/pungent odour
Odor threshold	: No data available
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рН	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: 281 - 287 °F
Flash point	: 80 °F Closed Cup
Relative evaporation rate (butyl acetate=1)	: 1.9
Flammability (solid, gas)	: Not applicable.
Vapor pressure	: 22 mm Hg @20 C
Relative vapor density at 20 °C	: No data available
Relative density	: 1
Specific gravity / density	: 0.993
Solubility	: Insoluble in water.
Log Pow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity
10.1. Reactivity
Flammable liquid and vapour.
10.2. Chemical stability
Stable under normal conditions.
10.3. Possibility of hazardous reactions
No dangerous reactions known under normal conditions of use.
10.4. Conditions to avoid
Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.
10.5. Incompatible materials
No additional information available
10.6. Hazardous decomposition products
Under normal conditions of storage and use, hazardous decomposition products should not be produced.
SECTION 11: Toxicological information
11.1. Information on toxicological effects

Acute toxicity

: Oral: Harmful if swallowed. Inhalation:vapour: Fatal if inhaled.

HS Hardener	
LD50 oral rat	746 mg/kg
LD50 dermal rat	> 2000 mg/kg
ATE US (oral)	746.000 mg/kg body weight
ATE US (vapors)	0.124 mg/l/4h
N-Butyl Acetate (123-86-4)	
LD50 oral rat	10770 mg/kg (Rat; Equivalent or similar to OECD 423; Experimental value; 12789 mg/kg; Rat; Equivalent or similar to OECD 423; Experimental value; 10760 mg/kg bodyweight; Rat)
LD50 dermal rabbit	> 17600 mg/kg (Rabbit; Experimental value; Equivalent or similar to OECD 402; >14112 mg/kg bodyweight; Rabbit)
ATE US (oral)	10770.000 mg/kg body weight
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solvent naphtha (petroleum), light are	omatic (64742-95-6)	
LD50 oral rat	3492 mg/kg	
LD50 dermal rabbit	> 3160 mg/kg	
LC50 inhalation rat (ppm)	> 6193 ppm/4h	
ATE US (oral)	3492.000 mg/kg body weight	
1,2,4-Trimethylbenzene (95-63-6)		
LD50 oral rat	> 5000 mg/kg (Rat; Equivalent or similar to OECD 401; Literature; 6000 mg/kg bodyweight; Rat; Experimental value)	
LD50 dermal rat	> 3440 mg/kg (Rat; Read-across; OECD 402: Acute Dermal Toxicity)	
LC50 inhalation rat (mg/l)	18 mg/l/4h (Rat)	
ATE US (gases)	4500.000 ppmV/4h	
ATE US (vapors)	18.000 mg/l/4h	
ATE US (dust, mist)	1.500 mg/l/4h	
mesitylene (108-67-8)		
LD50 oral rat	6000 mg/kg body weight (Equivalent or similar to OECD 401, Rat, Male/female, Read-across)	
LD50 dermal rat	> 2000 mg/kg bw/day (Equivalent or similar to OECD 402, 24 h, Rat, Male/female, Read- across)	
LC50 inhalation rat (mg/l)	> 10.2 mg/l air (OECD 403: Acute Inhalation Toxicity, 4 h, Rat, Male/female, Read-across)	
ATE US (oral)	6000.000 mg/kg body weight	
cumene (98-82-8)		
LD50 oral rat	> 2000 mg/kg (Rat; Other; Literature study; 4000 mg/kg bodyweight; Rat; Other; Inconclusive, insufficient data)	
LD50 dermal rabbit	10578 mg/kg (Rabbit; Literature study; Other)	
LC50 inhalation rat (mg/l)	40 mg/l/4h (Rat; Literature study)	
LC50 inhalation rat (ppm)	8000 ppm/4h (Rat; Literature study)	
ATE US (dermal)	10578.000 mg/kg body weight	
ATE US (gases)	8000.000 ppmV/4h	
ATE US (vapors)	40.000 mg/l/4h	
ATE US (dust, mist)	40.000 mg/l/4h	
1,6-diisocyanatohexane (822-06-0)		
LD50 oral rat	746 mg/kg (Equivalent or similar to OECD 401, Rat, Male, Experimental value)	
LD50 dermal rabbit	599 mg/kg (Rabbit)	
LC50 inhalation rat (mg/l)	0.124 mg/l (OECD 403: Acute Inhalation Toxicity, 4 h, Rat, Male/female, Experimental value)	
ATE US (oral)	746.000 mg/kg body weight	
ATE US (dermal)	599.000 mg/kg body weight	
ATE US (gases)	700.000 ppmV/4h	
ATE US (vapors)	0.124 mg/l/4h	
ATE US (dust, mist)	0.124 mg/l/4h	
kin corrosion/irritation	: Causes skin irritation.	
erious eye damage/irritation	: Causes serious eye irritation.	
Respiratory or skin sensitization	: May cause an allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.	
Germ cell mutagenicity	: May cause genetic defects.	
Carcinogenicity	: Suspected of causing cancer.	
HS Hardener		
IARC group	2B - Possibly carcinogenic to humans, 3 - Not classifiable	

cumene (98-82-8)	
IARC group 2B - Possibly carcinogenic to humans	
National Toxicity Program (NTP) Status	3 - Reasonably anticipated to be Human Carcinogen
Reproductive toxicity	: Not classified
STOT-single exposure	: May cause respiratory irritation.

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solvent naphtha (petroleum), light aroma		
Target organ(s)	liver kidneys	
	central nervous system	
cumene (98-82-8)	Prove	
Target organ(s)	liver kidnevs	
	central nervous system	
TOT-repeated exposure	: Not classified	
Aspiration hazard	: Not classified	
Symptoms/effects after inhalation	: May cause respiratory irritation. May cause an allergy or asthma symptoms or breathing difficulties if inhaled.	
Symptoms/effects after skin contact	: Irritation. May cause an allergic skin reaction.	
SECTION 12: Ecological informati	on	
I2.1. Toxicity		
Ecology - general	: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.	
N-Butyl Acetate (123-86-4)		
LC50 fish 1	18 mg/l (LC50; OECD 203: Fish, Acute Toxicity Test; 96 h; Pimephales promelas; Flow- through system; Fresh water; Experimental value)	
1,2,4-Trimethylbenzene (95-63-6)		
LC50 fish 1	7.72 mg/l (LC50; 96 h; Pimephales promelas; Flow-through system; Fresh water)	
EC50 Daphnia 1	3.6 mg/l (LC50; OECD 202: Daphnia sp. Acute Immobilisation Test; 48 h; Daphnia magna; Static system; Fresh water; Experimental value)	
Threshold limit algae 2	2.356 mg/l (EC50; ECOSAR; 96 h; Algae; Fresh water)	
mesitylene (108-67-8)		
LC50 fish 1	12.52 mg/l (96 h, Carassius auratus, Flow-through system, Fresh water, Experimental value)	
cumene (98-82-8)		
EC50 Daphnia 1	2.14 mg/l (EC50; OECD 202: Daphnia sp. Acute Immobilisation Test; 48 h; Daphnia magna; Static system; Fresh water; Experimental value)	
12.2. Persistence and degradability		
N-Butyl Acetate (123-86-4)		
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. Highly mobile in soil.	
Biochemical oxygen demand (BOD)	0.15 - 0.5 g O ₂ /g substance	
Chemical oxygen demand (COD)	2.32 g O₂/g substance	
ThOD	2.21 g O ₂ /g substance	
1,2,4-Trimethylbenzene (95-63-6)		
Persistence and degradability	Not readily biodegradable in water. Forming sediments in water. Biodegradable in the soil. Adsorbs into the soil. Low potential for mobility in soil. Photodegradation in the air.	
Chemical oxygen demand (COD)	0.44 g O ₂ /g substance	
mesitylene (108-67-8)		
Persistence and degradability	Biodegradable in the soil. Not readily biodegradable in water.	
Biochemical oxygen demand (BOD)	0.0957 g O ₂ /g substance	
Chemical oxygen demand (COD)	0.319 g O ₂ /g substance	
ThOD	3.19 g O₂/g substance	
BOD (% of ThOD)	0.03	
cumene (98-82-8)		
Persistence and degradability	Inherently biodegradable. Not readily biodegradable in water. Biodegradable in the soil. Low potential for adsorption in soil.	
Biochemical oxygen demand (BOD)	1.28 g O_2/g substance	

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cumene (98-82-8)	
Chemical oxygen demand (COD) 2.42 g O ₂ /g substance	
ThOD	3.2 g O ₂ /g substance
BOD (% of ThOD)	0.4
1,6-diisocyanatohexane (822-06-0)	
Persistence and degradability	Not readily biodegradable in water.

12.3. Bioaccumulative potential

N-Butyl Acetate (123-86-4)		
BCF fish 1	14 (BCF)	
Log Pow	2.3 (Experimental value; OECD 117: Partition Coefficient (n-octanol/water), HPLC method; 2 $^{\circ}$ C)	
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).	
solvent naphtha (petroleum), light aromatic (64742-95-6)	
Log Pow	2.1 - 6	
1,2,4-Trimethylbenzene (95-63-6)		
BCF fish 1	31 - 275 (BCF; Other; 8 weeks; Cyprinus carpio)	
Log Pow	3.63 - 4.09 (Experimental value)	
Bioaccumulative potential	Potential for bioaccumulation ($4 \ge Log$ Kow ≤ 5).	
mesitylene (108-67-8)		
BCF fish 1	161 (Pimephales promelas, QSAR)	
Log Pow	3.42 - 4.13 (Experimental value)	
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).	
cumene (98-82-8)		
BCF fish 1	35.5 (BCF)	
BCF other aquatic organisms 1	94.69 (BCF; BCFBAF v3.00)	
Log Pow	3.66 (Experimental value; 3.55; Experimental value; OECD 107: Partition Coefficient (n- octanol/water): Shake Flask Method; 23 °C)	
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).	
1,6-diisocyanatohexane (822-06-0)		
Log Pow	1.08 (QSAR)	
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).	

12.4. Mobility in soil

N-Butyl Acetate (123-86-4)			
Surface tension	0.0613 N/m (20 °C; 1 g/l)		
Log Koc	log Koc,SRC PCKOCWIN v2.0; 1.268 - 1.844; QSAR		
1,2,4-Trimethylbenzene (95-63-6)			
Surface tension	0.029 N/m		
Log Koc	log Koc,3.04; Calculated value		
Ecology - soil	May be harmful to plant growth, blooming and fruit formation.		
mesitylene (108-67-8)			
Surface tension	0.028 N/m		
Log Koc	2.87 (log Koc, Calculated value)		
Ecology - soil	Adsorption to soil is possible. May be harmful to plant growth, blooming and fruit formation.		
cumene (98-82-8)			
Log Koc	Koc,884; Calculated value; log Koc; 2.946; Calculated value		
1,6-diisocyanatohexane (822-06-0)			
Ecology - soil	Low potential for adsorption in soil.		
12.5. Other adverse effects			
Effect on the global warming	: No known effects from this product.		
GWPmix commont	No known offects from this product		

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SECTION 13: Disposal consideration	ns in the second se
13.1. Disposal methods	
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Additional information	: Flammable vapors may accumulate in the container.
SECTION 14: Transport information	
Department of Transportation (DOT)	
In accordance with DOT	
Transport document description	: UN1263 Paint, 3, III
UN-No.(DOT)	: UN1263
Proper Shipping Name (DOT)	: Paint
Class (DOT)	: 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120
Packing group (DOT)	: III - Minor Danger
Hazard labels (DOT)	: 3 - Flammable liquid
	FLAMMABLE LIQUID
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 173
DOT Packaging Bulk (49 CFR 173.xxx)	: 242
DOT Special Provisions (49 CFR 172.102)	: B1 - If the material has a flash point at or above 38 C (100 F) and below 93 C (200 F), then the
	 bill in the indentation point at of above do of (200 r) and below of (200 r), then the bulk packaging requirements of 173.241 of this subchapter are applicable. If the material has a flash point of less than 38 C (100 F), then the bulk packaging requirements of 173.242 of this subchapter are applicable. B52 - Notwithstanding the provisions of 173.24b of this subchapter, non-reclosing pressure relief devices are authorized on DOT 57 portable tanks. IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HD2, 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). T2 - 1.5 178.274(d)(2) Normal
DOT Packaging Exceptions (49 CFR 173.xxx)	: 150
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: bu L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 220 L
DOT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.
Emergency Response Guide (ERG) Number	: 128
Other information	: No supplementary information available.
Transportation of Dangerous Goods Not applicable	
Transport by sea	
Transport document description (IMDG)	: UN 1263 PAINT, 3, III
UN-No. (IMDG)	: 1263
Proper Shipping Name (IMDG)	: PAINT
Class (IMDG)	: 3 - Flammable liquids
Packing group (IMDG)	: III - substances presenting low danger

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Limited quantities ()
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: 5 L

Air transportTransport document description (IATA): UN 1263 Paint, 3, IIIUN-No. (IATA): 1263Proper Shipping Name (IATA): PaintClass (IATA): 3 - Flammable LiquidsPacking group (IATA): III - Minor Danger

SECTION 15: Regulatory information

15.1. US Federal regulations

Hexamethylene diisocyanate oligomers, Isocy	ranurate (28182-81-2)		
Listed on the United States TSCA (Toxic Substan	ces Control Act) inventory		
EPA TSCA Regulatory Flag	XU - XU - indicates a substance exempt from reporting under the Chemical Data Reporting Rule, (40 CFR 711).		
N-Butyl Acetate (123-86-4)			
Listed on the United States TSCA (Toxic Substan Not subject to reporting requirements of the Unite			
CERCLA RQ	5000 lb		
solvent naphtha (petroleum), light aromatic (6	4742-95-6)		
Listed on the United States TSCA (Toxic Substan	nces Control Act) inventory		
1,2,4-Trimethylbenzene (95-63-6)			
Listed on the United States TSCA (Toxic Substan Subject to reporting requirements of United States			
mesitylene (108-67-8)			
Listed on the United States TSCA (Toxic Substan	nces Control Act) inventory		
cumene (98-82-8)			
Listed on the United States TSCA (Toxic Substan Subject to reporting requirements of United States			
CERCLA RQ 5000 lb			
1,6-diisocyanatohexane (822-06-0)			
Listed on the United States TSCA (Toxic Substan Subject to reporting requirements of United States			
CERCLA RQ	100 lb		

15.2. International regulations CANADA Hexamethylene diisocyanate oligomers, Isocyanurate (28182-81-2) Listed on the Canadian DSL (Domestic Substances List) N-Butyl Acetate (123-86-4) Listed on the Canadian DSL (Domestic Substances List) solvent naphtha (petroleum), light aromatic (64742-95-6) Listed on the Canadian DSL (Domestic Substances List) 1,2,4-Trimethylbenzene (95-63-6) Listed on the Canadian DSL (Domestic Substances List) mesitylene (108-67-8) Listed on the Canadian DSL (Domestic Substances List) cumene (98-82-8) Listed on the Canadian DSL (Domestic Substances List)

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1,6-diisocyanatohexane (822-06-0)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations No additional information available

National regulations

cumene (98-82-8) Listed on IARC (International Agency for Research on Cancer) Listed as carcinogen on NTP (National Toxicology Program)

15.3. US State regulations

cumene (98-82-8)				
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)
Yes	No	No	No	
N-Butyl Acetate (123-86-4)				
U.S New Jersey - Right to H U.S Pennsylvania - RTK (R	Know Hazardous Substance Lis Light to Know) List	st		
1,2,4-Trimethylbenzene (95	-63-6)			
U.S New Jersey - Right to I	Know Hazardous Substance Lis	st		
cumene (98-82-8)				
U.S New Jersey - Right to H U.S Pennsylvania - RTK (R	Know Hazardous Substance Lis light to Know) List	st		
1,6-diisocyanatohexane (82	2-06-0)			
U.S New Jersey - Right to H U.S Pennsylvania - RTK (R	Know Hazardous Substance Lis light to Know) List	st		

SECTION 16: Other information

Revision date

: 04/13/2018

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H225	Highly flammable liquid and vapour	
11000	Elemente la linuid and una sur	
H226	Flammable liquid and vapour	
H302	Harmful if swallowed	
H304	May be fatal if swallowed and enters airways	
H311	Toxic in contact with skin	
H315	Causes skin irritation	
H317	May cause an allergic skin reaction	
H319	Causes serious eye irritation	
H330	Fatal if inhaled	
H331	Toxic if inhaled	
H332	Harmful if inhaled	
H334	May cause an allergy or asthma symptoms or breathing difficulties if inhaled	
H335	May cause respiratory irritation	
H336	May cause drowsiness or dizziness	
H340	May cause genetic defects	
H350	May cause cancer	
H351	Suspected of causing cancer	
H411	Toxic to aquatic life with long lasting effects	

SDS US (GHS HazCom 2012)

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.