

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 10/30/2015 Version: 1.0

SECTION 1: Identification

1.1. Identification

Product form : Mixture

Trade name : ACTIVATOR-EX-2C H.A.T. B PLUS

Product code : FUB0071 Formula : FUB0071

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : INDUSTRIAL COATING

Use of the substance/mixture : Industrial use

1.3. Details of the supplier of the safety data sheet

Endura Manufacturing Co. Ltd

12425 149 Street

Edmonton, T5L 2J6 - Canada T 780-451-4242 - F 780-452-5079 info@endura.ca - www.endura.ca

1.4. Emergency telephone number

Emergency number : In the event of an emergency involving dangerous goods:

in Canada call CANUTEC at 613-996-6666 or *666 on a cellular phone.

in the US call CHEMTREC at 800-424-9300 (Account Name for US is Polyglass Coatings)

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS-US classification

Flam. Liq. 2 H225 - Highly flammable liquid and vapour

Resp. Sens. 1 H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled

Skin Sens. 1 H317 - May cause an allergic skin reaction STOT SE 3 H336 - May cause drowsiness or dizziness

Full text of H-phrases: see section 16

2.2. Label elements

GHS-US labeling

Hazard pictograms (GHS-US)





GHS02

GHS07

GHS08

Signal word (GHS-US) : Danger

Hazard statements (GHS-US) : H225 - Highly flammable liquid and vapor

H317 - May cause an allergic skin reaction

H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled

H336 - May cause drowsiness or dizziness

Precautionary statements (GHS-US) : P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking

P233 - Keep container tightly closed

P240 - Ground/bond container and receiving equipment

P241 - Use explosion-proof electrical/ventilating/lighting equipment

P242 - Use only non-sparking tools

P243 - Take precautionary measures against static discharge P261 - Avoid breathing dust/fume/gas/mist/vapors/spray P271 - Use only outdoors or in a well-ventilated area

P272 - Contaminated work clothing must not be allowed out of the workplace P280 - Wear protective gloves/protective clothing/eye protection/face protection

P284 - [In case of inadequate ventilation] wear respiratory protection P302+P352 - IF ON SKIN: Wash with plenty of soap and water

P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse

skin with water/shower

P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing

P312 - Call a poison center or a doctor if you feel unwell

12/07/2015 EN (English US) Page 1

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

P321 - Specific treatment (see 4.1. First aid procedures on this label)

P333+P313 - If skin irritation or rash occurs: Get medical advice/attention

P342+P311 - If experiencing respiratory symptoms: Call a poison center/doctor/...

P363 - Wash contaminated clothing before reuse

P370+P378 - In case of fire: Use dry chemical powder, alcohol-resistant foam, carbon dioxide

(CO2) to extinguish

P403+P233 - Store in a well-ventilated place. Keep container tightly closed

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

P405 - Store locked up

P501 - Dispose of contents/container in accordance with all local, regional, national and

international regulations.

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%	GHS-US classification
acetone	(CAS No) 67-64-1	30 - 40	Flam. Liq. 2, H225 STOT SE 3, H336
2-butoxyethylacetate	(CAS No) 112-07-2	20 - 30	Flam. Liq. 4, H227 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation:dust,mist), H332
1,6-diisocyanatohexane	(CAS No) 822-06-0	0.169	Acute Tox. 4 (Oral), H302 Acute Tox. 3 (Dermal), H311 Acute Tox. 2 (Inhalation:dust,mist), H330 Skin Irrit. 2, H315 Resp. Sens. 1, H334 Skin Sens. 1, H317 STOT SE 3, H335

Full text of H-phrases: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : Call a poison center or a doctor if you feel unwell.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Remove victim to fresh air and

keep at rest in a position comfortable for breathing. Call a POISON CENTER or

doctor/physician if you feel unwell.

First-aid measures after skin contact : Rinse skin with water/shower. Remove/Take off all contaminated clothing immediately.

First-aid measures after eye contact : Rinse eyes with water as a precaution.

First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries : May cause drowsiness or dizziness. Symptoms/injuries after inhalation : May cause drowsiness or dizziness.

4.3. Indication of any immediate medical 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 substance or mixture

Fire hazard : Highly flammable liquid and vapor.

Explosion hazard : May form flammable/explosive vapor-air mixture.

Reactivity : Highly flammable liquid and vapor.

12/07/2015 EN (English US) 2/10

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

5.3. Advice for firefighters

Protection during firefighting

: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures

: Remove ignition sources. Use special care to avoid static electric charges. No naked lights. No

smoking.

6.1.1. For non-emergency personnel

Emergency procedures

: Ventilate spillage area. NO open flames, NO sparks, and NO smoking. Avoid breathing

dust/fume/gas/mist/vapors/spray.

6.1.2. For emergency responders

Protective equipment

: Do not attempt to take action without suitable protective equipment. Avoid breathing dust/fume/gas/mist/vapors/spray. For further information refer to section 8 Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment 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 8 : Exposure-controls/personal protection"".

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed

: Handle empty containers with care because residual vapors are flammable.

Precautions for safe handling : No naked lights. No smoking. Use only non-sparking tools. Avoid breathing

dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Take precautionary measures against static

discharge. Flammable vapors may accumulate in the container. Use explosion-proof

equipment. Wear personal protective equipment.

Hygiene measures : 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

Technical measures

: Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting

Storage conditions

: Keep in fireproof place. Keep container tightly closed. Store in a well-ventilated place. Keep

cool. Store locked up.

Incompatible materials : Heat sources.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

2-butoxyethylacetate (112-0)	7-2)	
ACGIH	ACGIH TWA (ppm)	20 ppm (2-Butoxyethyl acetate (EGBEA); USA; Time- weighted average exposure limit 8 h; TLV - Adopted Value)
ACGIH	Remark (ACGIH)	Hemolysis

acetone (67-64-1)		
ACGIH	ACGIH TWA (ppm)	500 ppm (Acetone; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)
ACGIH	ACGIH STEL (ppm)	750 ppm (Acetone; USA; Short time value; TLV - Adopted Value)
ACGIH	Remark (ACGIH)	eye irr; CNS impair; BEI

12/07/2015 EN (English US) 3/10

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

acetone (67-64-1)		
OSHA	OSHA PEL (TWA) (mg/m³)	2400 mg/m³
OSHA	OSHA PEL (TWA) (ppm)	1000 ppm

1,6-diisocyanatohexane (822-06-0)		
ACGIH	ACGIH TWA (ppm)	0.005 ppm (Hexamethylene diisocyanate; USA; Timeweighted average exposure limit 8 h; TLV - Adopted Value)
ACGIH	Remark (ACGIH)	URT irr; resp sens

8.2. Exposure controls

Appropriate engineering controls : Ensure good ventilation of the work station.

Hand protection : Protective gloves.

Eye protection : Safety glasses.

Skin and body protection : Wear suitable protective clothing.

Respiratory protection : Where exposure through inhalation may occur from use, respiratory protection equipment is

recommended.

Environmental exposure controls : Avoid release to the environment.

SECTION 9: Physical and chemical properties

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 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):

Pleasant odour Fruity odour Aromatic odour Sweet odour Irritating/pungent odour Petroleum-

like odour Mild odour Ether-like odour

Odor threshold : No data available pH : No data available Melting point : Not applicable Freezing point : No data available

Boiling point : 56 °C 132.8 °F

Flash point : -20 °C

Relative evaporation rate (butyl acetate=1) : No data available Flammability (solid, gas) : No data available Explosion limits : 0.9 - 12.8 vol % Explosive properties : No data available Oxidizing properties : No data available Vapor pressure : No data available Relative density : No data available

Specific gravity / density : 0.955 g/ml

Relative vapor density at 20 °C

Solubility : Water: Solubility in water of component(s) of the mixture :

: No data available

• 2-butoxyethylacetate: 1.5 g/100ml • acetone: Complete • n-butyl acetate: 0.53 g/100ml (20 °C) • Stoddard solvent: insoluble • 2-methoxy-1-methylethyl acetate: 19.8 g/100ml (20 °C,

soluble)

Log Pow : No data available

Auto-ignition temperature : 407.2 °C

765 °F

Decomposition temperature : No data available
Viscosity : No data available
Viscosity, kinematic : No data available

12/07/2015 EN (English US) 4/10

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Viscosity, dynamic : No data available

9.2. Other information

VOC content (Regulatory - Less water and exempt solvents) : 3.262 lb/gal
VOC content (Material - Actual) : 227.42 g/l
: 1.898 lb/gal

: 41.52 % (wt %)

Percent Solids (Volume) : 33.93 %
Percent Volatile (Weight) : 58.48 %
Percent Volatile (Volume) : 66.07 %

SECTION 10: Stability and reactivity

10.1. Reactivity

Percent Solids (Weight)

Highly flammable liquid and vapor.

10.2. Chemical stability

Highly flammable liquid and vapor. May form flammable/explosive vapor-air mixture.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Open flame. Direct sunlight. 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

May release flammable gases.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

2-butoxyethylacetate (112-07-2)		
LD50 oral rat	2400 mg/kg (Rat; OECD 401: Acute Oral Toxicity; Experimental value; 3000 mg/kg; Rat; Experimental value; 1880 mg/kg; Rat; Experimental value)	
LD50 dermal rat	1580 mg/kg (Rat; Literature study)	
LD50 dermal rabbit	1500 mg/kg (Rabbit; Experimental value)	
LC50 inhalation rat (mg/l)	> 2.7 mg/l/4h (Rat; Literature study)	
ATE US (oral)	2400.000 mg/kg body weight	
ATE US (dermal)	1500.000 mg/kg body weight	
ATE US (dust, mist)	1.500 mg/l/4h	
acetone (67-64-1)		
LD50 oral rat	5800 mg/kg (Rat; Equivalent or similar to OECD 401; Experimental value)	
LD50 dermal rabbit	20000 mg/kg (Rabbit; Experimental value; Equivalent or similar to OECD 402; >7426 mg/kg bodyweight; Rabbit; Weight of evidence)	
LC50 inhalation rat (mg/l)	71 mg/l/4h (Rat; Experimental value; 76 mg/l/4h; Rat; Experimental value)	
LC50 inhalation rat (ppm)	30000 ppm/4h (Rat; Experimental value)	
ATE US (oral)	5800.000 mg/kg body weight	
ATE US (dermal)	20000.000 mg/kg body weight	
ATE US (gases)	30000.000 ppmV/4h	
ATE US (vapors)	71.000 mg/l/4h	
ATE US (dust, mist)	71.000 mg/l/4h	
1,6-diisocyanatohexane (822-06-0)		
LD50 oral rat	745 mg/kg (Rat)	
LD50 dermal rabbit	599 mg/kg (Rabbit)	
LC50 inhalation rat (mg/l)	0.31 mg/l/4h (Rat)	

12/07/2015 EN (English US) 5/10

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

1,6-diisocyanatohexane (822-06-0)		
LC50 inhalation rat (ppm)	ation rat (ppm) 45 ppm/4h (Rat)	
ATE US (oral)	745.000 mg/kg body weight	
ATE US (dermal)	599.000 mg/kg body weight	
ATE US (gases)	45.000 ppmV/4h	
ATE US (vapors)	0.310 mg/l/4h	
ATE US (dust, mist)	0.310 mg/l/4h	

Skin corrosion/irritation : Not classified Serious eye damage/irritation : Not classified

Respiratory or skin sensitization : May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an

allergic skin reaction.

Germ cell mutagenicity : Not classified Carcinogenicity : Not classified

Reproductive toxicity : Not classified

Specific target organ toxicity (single exposure) : May cause drowsiness or dizziness.

Specific target organ toxicity (repeated

exposure)

: Not classified

Aspiration hazard : Not classified

Symptoms/injuries after inhalation : May cause drowsiness or dizziness.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse

effects in the environment.

2-butoxyethylacetate (112-07-2)	
LC50 fish 2	80 mg/l (LC50; 48 h; Leuciscus idus)
EC50 Daphnia 2	37 mg/l (EC50; 48 h)
Threshold limit algae 2	> 500 mg/l (EC50; 72 h)
acetone (67-64-1)	
LC50 fish 2	5540 mg/l (LC50; EU Method C.1; 96 h; Salmo gairdneri; Static system; Fresh water; Experimental value)
EC50 Daphnia 2	12600 mg/l (LC50; Other; 48 h; Daphnia magna; Static system; Fresh water; Experimental value)
1,6-diisocyanatohexane (822-06-0)	
LC50 fish 1	22 mg/l (LC0; Other; 96 h; Brachydanio rerio; Static system)
EC50 Daphnia 1	< 0.33 mg/l (EC0; Other; 24 h; Daphnia magna; Static system)
LC50 fish 2	31 mg/l (LC100; Other; 96 h; Brachydanio rerio; Static system)

12.2. Persistence and degradability

2-butoxyethylacetate (112-07-2)	
Persistence and degradability	Readily biodegradable in water. Photodegradation in the air.
ThOD	2.1 g O₂/g substance
acetone (67-64-1)	
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. Biodegradable in the soil under anaerobic conditions. No (test)data on mobility of the substance available.
Biochemical oxygen demand (BOD)	1.43 g O₂/g substance
Chemical oxygen demand (COD)	1.92 g O₂/g substance
ThOD	2.20 g O₂/g substance
BOD (% of ThOD)	0.872 (20 days; Literature study)
1,6-diisocyanatohexane (822-06-0)	
Persistence and degradability	Not readily biodegradable in water. Low potential for adsorption in soil.

12/07/2015 EN (English US) 6/10

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

12.3. Bioaccumulative potential

2-butoxyethylacetate (112-07-2)	
Log Pow	1.51 - 1.79
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
acetone (67-64-1)	
BCF fish 1	0.69 (BCF)
BCF other aquatic organisms 1	3 (BCF; BCFWIN)
Log Pow	-0.24 (Test data)
Bioaccumulative potential	Not bioaccumulative.
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

2-butoxyethylacetate (112-07-2)	
Surface tension 0.026 N/m (20 °C)	
acetone (67-64-1)	
Surface tension 0.0237 N/m	

12.5. Other adverse effects

Effect on the global warming : No known ecological damage caused by this product.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

Waste disposal recommendations : Dispose of contents/container in accordance with all local, regional, national and international

regulations.

Additional information : Handle empty containers with care because residual vapors are flammable. Flammable vapors

may accumulate in the container.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Transport document description : UN1263 Paint related material (including paint thinning, drying, removing, or reducing

compound), 3, II

UN-No.(DOT) : UN1263

Proper Shipping Name (DOT) : Paint related material

including paint thinning, drying, removing, or reducing compound

Transport hazard class(es) (DOT) : 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120

Hazard labels (DOT) : 3 - Flammable liquid

3

Packing group (DOT) : II - Medium Danger

DOT Packaging Non Bulk (49 CFR 173.xxx) : 173 DOT Packaging Bulk (49 CFR 173.xxx) : 242

12/07/2015 EN (English US) 7/10

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

DOT Special Provisions (49 CFR 172.102)

: 149 - When transported as a limited quantity or a consumer commodity, the maximum net capacity specified in 173.150(b)(2) of this subchapter for inner packaging may be increased to 5 L (1.3 gallons).

B52 - Notwithstanding the provisions of 173.24b of this subchapter, non-reclosing pressure relief devices are authorized on DOT 57 portable tanks.

IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized.

T4 - 2.65 178.274(d)(2) Normal..... 178.275(d)(3)

TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = 97 / 1 + a (tr - tf) Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling. TP8 - A portable tank having a minimum test pressure of 1.5 bar (150 kPa) may be used when

the flash point of the hazardous material transported is greater than 0 C (32 F).

TP28 - A portable tank having a minimum test pressure of 2.65 bar (265 kPa) may be used provided the calculated test pressure is 2.65 bar or less based on the MAWP of the hazardous material, as defined in 178.275 of this subchapter, where the test pressure is 1.5 times the

MAWP.

DOT Packaging Exceptions (49 CFR 173.xxx) : 150 DOT Quantity Limitations Passenger aircraft/rail : 5 L

(49 CFR 173.27)

DOT Quantity Limitations Cargo aircraft only (49 : 60 L

CFR 175.75)

DOT Vessel Stowage Location

: B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this

section is exceeded.

Other information : No supplementary information available.

TDG

: UN1263 PAINT RELATED MATERIAL (PAINT RELATED MATERIAL), 3, II Transport document description

UN-No. (TDG) : UN1263

TDG Proper Shipping Name : PAINT RELATED MATERIAL TDG Primary Hazard Classes : 3 - Class 3 - Flammable Liquids

: II - Medium Danger Packing group

59 - Substances that are listed by name in Schedule 1 must not be transported under this **TDG Special Provisions** shipping name. Substances transported under this shipping name may contain not more than 20 per cent nitrocellulose if the nitrocellulose contains not more than 12.6 per cent nitrogen (by dry mass)..83 - Section 5.12 of Part 5. Means of Containment, does not apply to these dangerous goods if a) the dangerous goods are included in Packing Group II or III; b) the dangerous goods are in quantities less than or equal to 5 L and are in a metal or plastic means

of containment; c) the metal or plastic means of containment is inside an outer means of containment and the gross mass of the outer means of containment is less than or equal to 40 kg; d) the means of containment are designed, constructed, filled, closed, secured and maintained so that under normal conditions of transport, including handling, there will be no accidental release of the dangerous goods that could endanger public safety; e) the dangerous goods are transported in palletized loads, a pallet box or unit load device so that individual means of containment are placed or stacked and secured to the pallet by strapping, shrink- or stretch-wrapping or other suitable means; and f) when the dangerous goods are on a road vehicle or a railway vehicle that is to be transported by ship, the pallets, pallet boxes or unit

load devices are secured inside the vehicle and the vehicle is closed.

Explosive Limit and Limited Quantity Index

Passenger Carrying Road Vehicle or Passenger : 5 Carrying Railway Vehicle Index

Transport by sea

UN-No. (IMDG) : UN1263

Proper Shipping Name (IMDG) : PAINT RELATED MATERIAL

Class (IMDG) : 3 - Flammable liquids

Packing group (IMDG) : II - substances presenting medium danger

Air transport

No additional information available

12/07/2015 EN (English US) 8/10

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 15: Regulatory information

15.1. US Federal regulations

2-butoxyethylacetate (112-07-2)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

acetone (67-64-1)

Listed on the United States TSCA (Toxic Substances Control Act) inventory Not listed on SARA Section 313 (Specific toxic chemical listings)

RQ (Reportable quantity, section 304 of EPA's

5000 lb

List of Lists)

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

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Listed on SARA Section 313 (Specific toxic chemical listings)

RQ (Reportable quantity, section 304 of EPA's

List of Lists)

100 lk

15.2. International regulations

CANADA

No additional information available

EU-Regulations

No additional information available

National regulations

No additional information available

15.3. US State regulations

2-butoxyethylacetate (112-07-2)

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

acetone (67-64-1)

- U.S. Massachusetts Right To Know List
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) List

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

- U.S. Massachusetts Right To Know List
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) List

SECTION 16: Other information

12/07/2015 EN (English US) 9/10

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Full text of H-phrases:

Acute Tox. 2 (Inhalation:dust,mist) Acute Tox. 3 (Dermal) Acute Tox. 4 (Dermal) Acute Tox. 4 (Dermal) Acute Tox. 4 (Dermal) Acute Tox. 4 (Inhalation:dust,mist) Acute Tox. 4 (Inhalation:dust,mist) Acute Tox. 4 (Inhalation:dust,mist) Acute Tox. 4 (Oral) Acute Tox. 4 (t of 11 philases.	
Acute Tox. 4 (Dermal) Acute Tox. 4 (Inhalation:dust,mist) Acute toxicity (inhalation:dust,mist) Category 4 Acute Tox. 4 (Oral) Acute toxicity (inhalation:dust,mist) Category 4 Flam. Liq. 2 Flam. Liq. 2 Flammable liquids Category 2 Flam. Liq. 4 Resp. Sens. 1 Respiratory sensitisation Category 1 Skin Irrit. 2 Skin Corrosion/irritation Category 2 Skin Sens. 1 Stort SE 3 Specific target organ toxicity (single exposure) Category 3 STOT SE 3 Highly flammable liquid and vapor Combustible liquid H302 Harmful if swallowed H311 Toxic in contact with skin H312 Harmful in contact with skin H315 Causes skin irritation H317 May cause an allergic skin reaction H330 H334 May cause respiratory irritation May cause respiratory irritation May cause respiratory irritation May cause respiratory irritation	Acute Tox. 2 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 2
Acute Tox. 4 (Inhalation:dust,mist) Acute toxicity (inhalation:dust,mist) Category 4 Acute Tox. 4 (Oral) Acute toxicity (oral) Category 4 Flam. Liq. 2 Flammable liquids Category 2 Flammable liquids Category 4 Resp. Sens. 1 Resp. Sens. 1 Respiratory sensitisation Category 1 Skin Irrit. 2 Skin corrosion/irritation Category 2 Skin Sens. 1 Schin Irrit. 2 Skin sensitization Category 1 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 H227 Combustible liquid H302 Harmful if swallowed H311 Toxic in contact with skin H312 Harmful in contact with skin H315 Causes skin irritation H317 May cause an allergic skin reaction H330 Fatal if inhaled H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled H335 May cause respiratory irritation	Acute Tox. 3 (Dermal)	Acute toxicity (dermal) Category 3
Acute Tox. 4 (Oral) Flam. Liq. 2 Flam. Liq. 4 Resp. Sens. 1 Skin Irrit. 2 Skin corrosion/irritation Category 2 Skin Sens. 1 STOT SE 3 Specific target organ toxicity (single exposure) Category 3 Highly flammable liquid and vapor H227 Combustible liquid H311 H312 H315 H317 May cause an allergic skin reaction May cause allergy or asthma symptoms or breathing difficulties if inhaled H334 May cause an allergy or asthma symptoms or breathing difficulties if inhaled H335 May cause respiratory irritation	Acute Tox. 4 (Dermal)	Acute toxicity (dermal) Category 4
Flam. Liq. 2 Flam. Liq. 4 Flammable liquids Category 2 Flam. Liq. 4 Flammable liquids Category 4 Resp. Sens. 1 Respiratory sensitisation Category 1 Skin Irrit. 2 Skin corrosion/irritation Category 2 Skin Sens. 1 Skin sens. 1 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 H227 Combustible liquid H302 Harmful if swallowed H311 Toxic in contact with skin H312 Harmful in contact with skin H315 Causes skin irritation H317 May cause an allergic skin reaction H330 Fatal if inhaled H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled H335 May cause respiratory irritation	Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Flam. Liq. 4 Resp. Sens. 1 Respiratory sensitisation Category 1 Skin Irrit. 2 Skin Sens. 1 Skin Sens. 1 Stin Sens. 1 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 H227 Combustible liquid H302 Harmful if swallowed H311 Toxic in contact with skin H312 Harmful in contact with skin H315 Causes skin irritation H317 May cause an allergic skin reaction H330 Fatal if inhaled H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled H335 May cause respiratory irritation	Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Resp. Sens. 1 Skin Irrit. 2 Skin corrosion/irritation Category 2 Skin Sens. 1 Skin Sens. 1 Skin sensitization Category 1 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 H227 Combustible liquid H302 Harmful if swallowed H311 Toxic in contact with skin H312 Harmful in contact with skin H315 Causes skin irritation H317 May cause an allergic skin reaction H330 Fatal if inhaled H332 Harmful if inhaled H334 May cause respiratory irritation May cause respiratory irritation May cause respiratory irritation	Flam. Liq. 2	Flammable liquids Category 2
Skin Irrit. 2 Skin sens. 1 Skin sens. 1 Stort Se 3 Specific target organ toxicity (single exposure) Category 3 Stort Se 3 Specific target organ toxicity (single exposure) Category 3 H225 Highly flammable liquid and vapor Combustible liquid H302 Harmful if swallowed H311 Toxic in contact with skin H312 Harmful in contact with skin H315 Causes skin irritation H317 May cause an allergic skin reaction H330 Fatal if inhaled H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled H335 May cause respiratory irritation	Flam. Liq. 4	Flammable liquids Category 4
Skin Sens. 1 Stort SE 3 Specific target organ toxicity (single exposure) Category 3 Stort SE 3 Specific target organ toxicity (single exposure) Category 3 H225 Highly flammable liquid and vapor Combustible liquid H302 Harmful if swallowed H311 Toxic in contact with skin H312 Harmful in contact with skin H315 Causes skin irritation H317 May cause an allergic skin reaction H330 Fatal if inhaled H332 Harmful if inhaled H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled H335 May cause respiratory irritation	Resp. Sens. 1	Respiratory sensitisation Category 1
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 H227 Combustible liquid H302 Harmful if swallowed H311 Toxic in contact with skin H312 Harmful in contact with skin H315 Causes skin irritation H317 May cause an allergic skin reaction H330 Fatal if inhaled H332 Harmful if inhaled H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled H335 May cause respiratory irritation	Skin Irrit. 2	Skin corrosion/irritation Category 2
STOT SE 3 Specific target organ toxicity (single exposure) Category 3 H225 Highly flammable liquid and vapor Combustible liquid H302 Harmful if swallowed H311 Toxic in contact with skin H312 Harmful in contact with skin Causes skin irritation H317 May cause an allergic skin reaction H330 Fatal if inhaled H332 Harmful if inhaled H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled H335 May cause respiratory irritation	Skin Sens. 1	Skin sensitization Category 1
H225 Highly flammable liquid and vapor Combustible liquid H302 Harmful if swallowed H311 Toxic in contact with skin H312 Harmful in contact with skin H315 Causes skin irritation H317 May cause an allergic skin reaction H330 Fatal if inhaled H332 Harmful if inhaled H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled H335 May cause respiratory irritation	STOT SE 3	
H227 Combustible liquid H302 Harmful if swallowed H311 Toxic in contact with skin H312 Harmful in contact with skin Causes skin irritation H315 Causes skin irritation May cause an allergic skin reaction Fatal if inhaled H332 Harmful if inhaled H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled H335 May cause respiratory irritation	STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H302 Harmful if swallowed H311 Toxic in contact with skin H312 Harmful in contact with skin H315 Causes skin irritation H317 May cause an allergic skin reaction H330 Fatal if inhaled H332 Harmful if inhaled H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled H335 May cause respiratory irritation	H225	Highly flammable liquid and vapor
H311 Toxic in contact with skin H312 Harmful in contact with skin H315 Causes skin irritation H317 May cause an allergic skin reaction H330 Fatal if inhaled H332 Harmful if inhaled H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled H335 May cause respiratory irritation	H227	Combustible liquid
H312 Harmful in contact with skin H315 Causes skin irritation H317 May cause an allergic skin reaction H330 Fatal if inhaled H332 Harmful if inhaled H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled H335 May cause respiratory irritation	H302	Harmful if swallowed
H315 Causes skin irritation H317 May cause an allergic skin reaction H330 Fatal if inhaled H332 Harmful if inhaled H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled H335 May cause respiratory irritation	H311	Toxic in contact with skin
H317 May cause an allergic skin reaction H330 Fatal if inhaled H332 Harmful if inhaled H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled H335 May cause respiratory irritation	H312	Harmful in contact with skin
H330 Fatal if inhaled H332 Harmful if inhaled H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled H335 May cause respiratory irritation	H315	Causes skin irritation
H332 Harmful if inhaled H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled H335 May cause respiratory irritation	H317	May cause an allergic skin reaction
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled H335 May cause respiratory irritation	H330	Fatal if inhaled
inhaled H335 May cause respiratory irritation	H332	Harmful if inhaled
, , ,	H334	
H336 May cause drowsiness or dizziness	H335	May cause respiratory irritation
<u> </u>	H336	May cause drowsiness or dizziness

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12/07/2015 EN (English US) 10/10