

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product name: URETHANE ACTIVATOR SLOW
Product code: HPC3
Print Date: 01/Aug/2011
Revision Date: 20/Jun/2011
Recommended use: For coating metal containers and similar products.

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Manufacturer's Phone: 1-612-332-7371

2. HAZARDS IDENTIFICATION

REGULATION (EC) No 1272/2008

Acute inhalation toxicity - vapor	Category 4
Acute inhalation toxicity - dust/mist	Category 4
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2
Respiratory sensitisation	Category 1
Skin sensitisation	Category 1
Chronic aquatic toxicity	Category 3

Flammable liquids. Category 2

Label Elements



contains: 4-METHYLPENTAN-2-ONE, ISOPHORONE DI-ISOCYANATE, ISOPHORONEDIISOCYANATE, HOMOPOLYMER, HEXANE, 1,6-DIISOCYANATO-, HOMOPOLYMER, SOLVENT NAPHTHA (PETROLEUM), LIGHT AROM.

Signal word: Danger

Hazard statements

- H315 - Causes skin irritation
- H317 - May cause an allergic skin reaction
- H319 - Causes serious eye irritation
- H332 - Harmful if inhaled
- H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled
- H225 - Highly flammable liquid and vapour
- H412 - Harmful to aquatic life with long lasting effects

Precautionary obligatory statements

- P261 - Avoid breathing dust/fume/gas/mist/vapours/spray
- P342 + P311 - If experiencing respiratory symptoms: Call a POISON CENTER or doctor/ physician
- P304 + P341 - IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing
- P280 - Wear eye protection/face protection
- P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking
- P233 - Keep container tightly closed
- P241 - Use explosion-proof electrical/ventilating/lighting/equipment
- P242 - Use only non-sparking tools
- P243 - Take precautionary measures against static discharge
- P280 - Wear protective gloves/protective clothing/eye protection/face protection
- P403 + P235 - Store in a well-ventilated place. Keep cool

Precautionary additional statements

- P271 - Use only outdoors or in a well-ventilated area
- P304 + P340 - IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
- P312 - Call a POISON CENTRE/doctor/physician if you feel unwell
- P332 + P313 - If skin irritation occurs: Get medical advice/attention.
- P362 - Take off contaminated clothing and wash before reuse
- P264 - Wash face, hands and any exposed skin thoroughly after handling
- P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- P337 + P313 - If eye irritation persists: Get medical advice/attention.
- P285 - In case of inadequate ventilation wear respiratory protection
- P304 + P341 - IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing
- P342 + P311 - If experiencing respiratory symptoms: Call a POISON CENTRE or doctor/physician
- P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.
- P272 - Contaminated work clothing should not be allowed out of the workplace
- P280 - Wear protective gloves/protective clothing/eye protection/face protection.
- P302+ P352 - IF ON SKIN: Wash with plenty of soap and water
- P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention.
- P321 - Specific treatment (see supplemental first aid instructions on this label)
- P363 - Wash contaminated clothing before reuse
- P273 - Avoid release to the environment
- P501 - Dispose of contents/container to an approved waste disposal plant
- P501 - Dispose of contents/container to .?

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient Name CAS-No.	Approx. Weight %	GHS / CLP Substance Classification
ISOPHORONEDIISOCYANATE, HOMOPOLYMER 53880-05-0	25 - 50	Resp. Sens. 1 (H334) Skin Sens. 1 (H317)
HEXANE, 1,6-DIISOCYANATO-, HOMOPOLYMER 28182-81-2	20 - 25	Skin Sens. 1 (H317)
n-BUTYL ACETATE 123-86-4	10 - 20	Flam. Liq. 3 (H226) STOT SE 3 (H336) (EUH066)

1,2,4-TRIMETHYLBENZENE 95-63-6	5 - 10	Skin Irrit. 2 (H315) Flam. Liq. 3 (H226) STOT SE 3 (H335) Acute Tox. 4 (H332) Eye Irrit. 2 (H319) Aquatic Chronic 2 (H411)
4-METHYLPENTAN-2-ONE 108-10-1	5 - 10	Flam. Liq. 2 (H225) STOT SE 3 (H335) Acute Tox. 4 (H332) Eye Irrit. 2 (H319) EUH066
SOLVENT NAPHTHA (PETROLEUM), LIGHT AROM. 64742-95-6	3 - 5	Flam. Liq. 3 (H226) Asp. Tox. 1 (H304) STOT SE 3 (H335) STOT SE 3 (H336) (EUH066) Aquatic Chronic 2 (H411)
ISOPHORONE DI-ISOCYANATE 4098-71-9	0.1 - 1	Skin Irrit. 2 (H315) STOT SE 3 (H335) Acute Tox. 3 (H331) Eye Irrit. 2 (H319) Resp. Sens. 1 (H334) Skin Sens. 1 (H317) Aquatic Chronic 2 (H411)
DIBUTYLTIN DILAURATE 77-58-7	0.1 - 1	Repr. 1B (H360FD) Muta. 2 (H341) STOT RE 1 (H372) Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)

For the full text of the R-phrases mentioned in this Section, see Section 16

4. FIRST AID MEASURES

General

If symptoms persist, call a physician. Never give anything by mouth to an unconscious person.

Inhalation:

Move to fresh air. If victim is unconscious but breathing: Victim to lie down in the recovery position, cover and keep him warm. If not breathing, give artificial respiration. Obtain medical attention.

Skin:

Take off all contaminated clothing immediately. Wash off immediately with soap and plenty of water. Do NOT use solvents or thinners.

Eyes:

Remove contact lenses. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Keep eye wide open while rinsing.

Ingestion:

Keep at rest. If swallowed, seek medical advice immediately and show this container or label. Do NOT induce vomiting.

5. FIRE-FIGHTING MEASURES

The following actions are recommended

Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire will produce dense black smoke containing hazardous combustion products (see heading 10). Wear self contained breathing apparatus for fire fighting if necessary. Cool containers / tanks with water spray.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Suitable extinguishing media

Alcohol-resistant foam

Carbon dioxide (CO₂)

Dry powder

Extinguishing media which must not be used for safety reasons

High volume water jet

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:

Exclude non essential personnel. Remove all sources of ignition. Ensure adequate ventilation. Do not breathe vapours/dust.

Environmental precautions:

Local authorities should be advised if significant spillages cannot be contained.

Methods for cleaning up:

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Clean with detergents. Avoid solvents.

7. HANDLING AND STORAGE

Handling:

Operators should wear anti-static footwear and clothing. Use only non-sparking tools. Good housekeeping standards and regular safe removal of waste materials will minimise the risks of spontaneous combustion and other fire hazards. Vapours are heavier than air and may spread along floors. Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits. Provide adequate ventilation. The product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard. Preparation may charge electrostatically: always use earthing leads when transferring from one container to another. Keep container tightly closed. Keep away from open flames, hot surfaces and sources of ignition. Avoid contact with skin and eyes. Do not breathe vapours or spray mist. When using, do not eat, drink or smoke. Do not use pressure to empty drums. Store in original container.

Storage:

Containers which are opened must be carefully resealed and kept upright to prevent leakage. Take notice of the directions of use on the label. Keep in a dry, cool and well-ventilated place. Keep away from heat and sources of ignition. Keep away from direct sunlight. Store in a place accessible by authorized persons only. Do not smoke.

Storage temperature: 10 - 30 C

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits:

China

Ingredient Name CAS-No.	Time Weighted Average (TWA)	Short Term Limit (STEL)	Ceiling Limit Value	Skin designation
n-BUTYL ACETATE 123-86-4	200 mg/m ³ TWA	300 mg/m ³ STEL		
ISOPHORONE DI- ISOCYANATE 4098-71-9	0.05 mg/m ³ TWA	0.1 mg/m ³ STEL		
DIBUTYLTIN DILAURATE 77-58-7	0.1 mg/m ³ TWA	0.2 mg/m ³ STEL		Can be absorbed through the skin.

ACGIH Threshold Limit Value (TLV's)

Ingredient Name CAS-No.	ACGIH time weighted averages	ACGIH short term exposure limits	ACGIH Ceiling limits	ACGIH skin designations
n-BUTYL ACETATE 123-86-4	150 ppm TWA	200 ppm STEL		

Ingredient Name CAS-No.	ACGIH time weighted averages	ACGIH short term exposure limits	ACGIH Ceiling limits	ACGIH skin designations
1,2,4- TRIMETHYLBENZENE 95-63-6	25 PPM			
4-METHYLPENTAN-2- ONE 108-10-1	50 ppm TWA	75 ppm STEL		
ISOPHORONE DI- ISOCYANATE 4098-71-9	0.005 ppm TWA			
DIBUTYLTIN DILAURATE 77-58-7	0.1 mg/m ³ TWA Sn	0.2 mg/m ³ STEL Sn		CAN BE ABSORBED THROUGH THE SKIN

Engineering measures:

During curing, decomposition products may be formed, which should be extracted safely from the work area. Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL, suitable respiratory protection must be worn.

Basic Personal Protection

Respiration

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Hand protection:

Wear suitable gloves and eye/face protection. Use protective skin cream before handling the product.

Skin:

Wear as appropriate: Flame retardant antistatic protective clothing Wear shoes with conductive soles.

Eyes:

Wear as appropriate: Safety glasses with side-shields Goggles

Hygiene measures:

Do not use solvents or thinners to clean skin. When using, do not eat, drink or smoke. Wash hands before breaks and at the end of workday. It is good practice in industrial hygiene to avoid contact with solvents by using appropriate protective measures whenever possible.

The OES for nuisance dust is 10 mg/m³ (total dust), 4 mg/m³ (respirable dust). Check local regulations in case different limits apply.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	liquid
Specific Gravity	1.09
Boiling point/range	114°C
Flash point:	18°C c.c.
Sustains combustion:	yes

10. STABILITY AND REACTIVITY

Stability:

Stable under normal conditions.

Conditions to avoid:

Stable under recommended storage conditions.

Materials to avoid:

Keep away from oxidising agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

Hazardous decomposition products:

Hazardous decomposition products may be produced when the recommended processing temperatures or times are exceeded. Carbon monoxide Carbon dioxide (CO₂) Smoke nitrogen oxides (NO_x)

11. TOXICOLOGICAL INFORMATION

Ingredient Name CAS-No.	LD50 Oral	LD50 Dermal	LC50 Inhalation
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11. TOXICOLOGICAL INFORMATION			
HEXANE, 1,6-DIISOCYANATO-, HOMOPOLYMER 28182-81-2			18500 mg/m ³ (Rat) 1 h
n-BUTYL ACETATE 123-86-4	10768 mg/kg (Rat)	17600 mg/kg (Rabbit)	390 ppm (Rat) 4 h
1,2,4-TRIMETHYLBENZENE 95-63-6	3400 mg/kg (Rat)	3160 mg/kg (Rabbit)	18 g/m ³ (Rat) 4 h
4-METHYLPENTAN-2-ONE 108-10-1	2080 mg/kg (Rat)	16000 mg/kg (Rabbit)	8.2 mg/L (Rat) 4 h
SOLVENT NAPHTHA (PETROLEUM), LIGHT AROM. 64742-95-6	8400 mg/kg (Rat)	2000 mg/kg (Rabbit)	3400 ppm (Rat) 4 h 5.2 mg/L (Rat) 4 h
ISOPHORONE DI-ISOCYANATE 4098-71-9	1270 mg/kg (Rat)	4780 mg/kg (Rabbit) 7000 mg/kg (Rat)	0.123 mg/L (Rat) 4 h 0.26 mg/L (Rat) 1 h
DIBUTYLTIN DILAURATE 77-58-7	175 mg/kg (Rat)		

General

No data is available on the product itself.

Skin

Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin. Repeated or prolonged skin contact may cause skin irritation and/or dermatitis and sensitization of susceptible persons.

Inhalation

Exposure to vapour concentrations in excess of the stated occupational exposure limit may result in adverse health effect, such as mucous membrane and respiratory system irritation and adverse effect on kidney, liver and central nervous system. Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.

Ingestion

not determined

Eyes

The liquid splashed in the eyes may cause irritation and reversible damage.

12. ECOLOGICAL INFORMATION

Ingredient Name CAS-No.	Freshwater Algae 72 hour - Acute Toxicity Data	Acute Fish toxicity:	Freshwater Daphnia 48 hour - Acute Toxicity Data	Freshwater Water Flea 48 hour - Acute Toxicity Data
n-BUTYL ACETATE 123-86-4	= 674.7 mg/L <i>Desmodesmus subspicatus</i>	= 100 mg/L <i>Lepomis macrochirus</i> = 62 mg/L <i>Leuciscus idus</i> 17-19 mg/L <i>Pimephales promelas</i>		
1,2,4-TRIMETHYLBENZENE 95-63-6		7.19-8.28 mg/L <i>Pimephales promelas</i>	= 6.14 mg/L <i>Daphnia magna</i>	
4-METHYLPENTAN-2-ONE 108-10-1		496-514 mg/L <i>Pimephales promelas</i>	= 170 mg/L <i>Daphnia magna</i>	
SOLVENT NAPHTHA (PETROLEUM), LIGHT AROM. 64742-95-6		= 9.22 mg/L <i>Oncorhynchus mykiss</i>	= 6.14 mg/L <i>Daphnia magna</i>	
ISOPHORONE DI-ISOCYANATE 4098-71-9	= 118.7 mg/L <i>Desmodesmus subspicatus</i>			

Product Information

No data is available on the product itself.

Local pollution requirements may apply to the use of this product. Do not let product enter drains. Do not contaminate surface water.

13. DISPOSAL CONSIDERATIONS

Waste disposal methods:

Do not let product enter drains. Do not contaminate ponds, waterways or ditches with chemical or used container. Where possible recycling is preferred to disposal or incineration. Dispose of as special waste in compliance with local and national regulations.

14. TRANSPORT INFORMATION

ADR

Proper shipping name: PAINT
UN/ID No: UN1263
Hazard class: 3
Packing group: II

IMDG-Code

Proper shipping name: PAINT
UN/ID No: UN1263
Hazard class: 3
Packing group: II
Marine pollutant no

IATA-DGR

Proper shipping name: Paint
UN/ID No: UN1263
Hazard class: 3
Packing group: II

15. REGULATORY INFORMATION

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3

- H225 - Highly flammable liquid and vapour
- H335 - May cause respiratory irritation
- H332 - Harmful if inhaled
- H319 - Causes serious eye irritation
- H226 - Flammable liquid and vapour
- H336 - May cause drowsiness or dizziness
- H317 - May cause an allergic skin reaction
- H315 - Causes skin irritation
- H331 - Toxic if inhaled
- H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled
- H411 - Toxic to aquatic life with long lasting effects
- H304 - May be fatal if swallowed and enters airways
- H360FD - May damage fertility. May damage the unborn child
- H341 - Suspected of causing genetic defects if inhaled
- H372 - Causes damage to organs (a,b,c) through prolonged or repeated exposure if inhaled
- H302 - Harmful if swallowed
- H400 - Very toxic to aquatic life
- H410 - Very toxic to aquatic life with long lasting effects
- EUH066 - Repeated exposure may cause skin dryness or cracking