

Product name: 13100S Activator

Product code: 13100S

Print Date: 2016-09-20

v3.1

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## 1. Identification of the substance/mixture and of the company/undertaking

**Product name** 13100S Activator

**Product code** 13100S

**Recommended use of the chemical**

Hardener for professional use

**Restrictions on use**

The product is only for industrial and/or professional use, not for any private consumer use.

**Information on the Manufacturer/Supplier/Distributor**

Producer/Supplier

Axalta Coating Systems Australia Pty Limited

Street/Box

15 - 23 Melbourne Road, Riverstone NSW 2765, Australia

**Product Information**

Telephone

+61 (0)2 8818 4300

<http://www.axalta.com.au>

**Emergency Information**

Emergency telephone number

1800 089 766

AU Poisons Information Centre: 131 126

Medical Emergency Phone

1800 674 415

Transportation Emergency Phone

1800 089 766

**For further information, please also consult our Internet site**

<http://www.axaltacoatingsystems.com>

## 2. Hazards identification

Classified as HAZARDOUS according to the GHS criteria under Australian Work Health Safety (WHS) Act 2011.

Classified as DANGEROUS GOODS according to the Australian Dangerous Goods (ADG) Code

**GHS-Classification**

Flammable liquids	Category 2
Serious eye damage/eye irritation	Category 2A
Skin sensitisation	Category 1
Target Organ Systemic Toxicant - Single exposure	Category 3

Endpoints which are "not classified", "cannot classified" and "not applicable" are not shown.

**GHS-Labeling**

Hazard symbols



Signal word: Danger

Hazard statements

Repeated exposure may cause skin dryness or cracking.

Contains isocyanates. May produce an allergic reaction.

Highly flammable liquid and vapour.

May cause an allergic skin reaction.

Causes serious eye irritation.

May cause respiratory irritation.

May cause drowsiness or dizziness.

Precautionary statements

Keep away from heat/sparks/open flames/hot surfaces. No smoking.

Ground/bond container and receiving equipment.

Use explosion-proof electrical/ventilating/lighting equipment.

Use only non-sparking tools.

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Take precautionary measures against static discharge.

Avoid breathing dust/ vapours/ spray.

Use only outdoors or in a well-ventilated area.

Contaminated work clothing should not be allowed out of the workplace.

Wear protective gloves/protective clothing/eye protection/face protection.

IF ON SKIN: Wash with plenty of soap and water.

IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.

IF INHALED: 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 if you feel unwell: Call a POISON CENTER or doctor/ physician.

Specific treatment (see supplemental first aid instructions on this label).

If skin irritation or rash occurs: Get medical advice/ attention.

If eye irritation persists: Get medical advice/ attention.

Wash contaminated clothing before reuse.

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

Store locked up.

Dispose of contents/container in accordance with local regulations.

## Other hazards which do not result in classification

Contains isocyanates. See information supplied by the manufacturer.

## Special hazard instructions for humans and environment

Do not breathe vapour. Avoid contact with skin. Take precautionary measures against static discharges. Wear suitable gloves. In case of insufficient ventilation, wear suitable respiratory equipment. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Restricted to professional users.

## 3. Composition/information on ingredients

### Chemical nature

Mixture of synthetic resins and solvents

### Hazardous components

CAS-No.	Chemical name	Concentration	GHS Hazardous
28182-81-2	Hexamethylene diisocyanate, oligomers	70 - 80%	✓
141-78-6	ethyl acetate	10 - 20%	✓
123-86-4	n-butyl acetate	5 - 10%	✓
103-09-3	2-ethylhexyl acetate	3 - 5%	✓

Non-regulated ingredients 0.0 - 0.1%

## 4. First aid measures

### Eye contact

Remove contact lenses. Irrigate copiously with clean, fresh water for at least 15 minutes, holding the eyelids apart. Seek medical advice.

### Skin contact

Do NOT use solvents or thinners. Take off all contaminated clothing immediately. Wash skin thoroughly with soap and water or use recognized skin cleanser. If skin irritation persists, call a physician.

### Inhalation

Avoid inhalation of vapour or mist. Move to fresh air in case of accidental inhalation of vapours. If breathing is irregular or stopped, administer artificial respiration. If unconscious place in recovery position and seek medical advice. If symptoms persist, call a physician.

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**Ingestion**

If swallowed, seek medical advice immediately and show this safety data sheet (SDS) or product label. Do NOT induce vomiting. Keep at rest.

**Most Important Symptoms/effects, acute and delayed****Inhalation**

May cause nose and throat irritation. May cause nervous system depression characterized by the following progressive steps: headache, dizziness, nausea, staggering gait, confusion, unconsciousness. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage. Exposure to isocyanates may cause respiratory sensitization. This effect may be permanent. Symptoms include an asthma-like reaction with shortness of breath, wheezing, cough or permanent lung sensitization. This effect may be delayed for several hours after exposure. Repeated overexposure to isocyanates may cause a decrease in lung function, which may be permanent. Individuals with lung or breathing problems or prior reactions to isocyanates must not be exposed to vapors or spray mist of this product.

**Ingestion**

May result in gastrointestinal distress.

**Skin or eye contact**

May cause irritation or burning of the eyes. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis. Skin contact may cause skin sensitization.

**Indication of Immediate medical attention and special treatment needed if necessary**

No data available on the product. See section 3 and 11 for hazardous ingredients found in the product.

## 5. Firefighting measures

**Suitable extinguishing media**

Universal aqueous film-forming foam, Carbon dioxide (CO<sub>2</sub>), Dry chemical

**Extinguishing media which shall not be used for safety reasons**

High volume water jet

**Hazardous combustion products**

CO, CO<sub>2</sub>, smoke, and oxides of any heavy metals that are reported in "Composition, Information on Ingredients" section.

**Fire and Explosion Hazards**

Flammable liquid. Vapor/air mixture will burn when an ignition source is present.

**Special Protective Equipment and Fire Fighting Procedures**

Full protective flameproof clothing should be worn as appropriate. Wear self-contained breathing apparatus for firefighting if necessary. In the event of fire, cool tanks with water spray. Do not allow run-off from fire fighting to enter public sewer systems or public waterways.

**Additional information**

Hazchem Code: 3YE

## 6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures**

Keep in a well-ventilated place. Keep away from sources of ignition. Comply with safety directives (see chapters 7 and 8). Do not inhale vapours.

**Environmental precautions**

Do not let product enter drains. Notify the respective authorities in accordance with local law in the case of contamination of rivers, lakes or waste water systems.

**Methods for cleaning up**

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations. The contaminated area should be cleaned up immediately with a suitable decontaminant. One possible (flammable) decontaminant comprises (by volume): water (45 parts), ethanol or isopropyl alcohol (50 parts), concentrated (d : 0,880) ammonia solution (5 parts). A non-flammable alternative is sodium carbonate (5 parts), water (95 parts). Add the same decontaminant to the remnants and let stand for several days until no further reaction in non-sealed container. Once this stage is reached, close container and dispose according to local regulations (see section 13).

## 7. Handling and storage

### Handling

Persons with a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

### Safe handling advice

Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits. The product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Preparation may charge electrostatically: always use grounded leads when transferring from one container to another.

Operators should wear antistatic footwear and clothing. No sparking tools should be used. Avoid skin and eye contact. Do not breathe vapours or spray mist. Smoking, eating and drinking should be prohibited in the application area.

For personal protection see section 8. Comply with the health and safety at work laws. If material is a coating, do not sand, flame cut, braze or weld dry coating without an appropriate respirator or appropriate ventilation, and gloves.

### Advice on protection against fire and explosion

Solvent vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air. Never use pressure to empty container: container is not a pressure vessel. Always keep in containers of same material as the original one.

### Storage

#### Requirements for storage areas and containers

Storage temperature: +5 to +35°C. Observe label precautions. Store in a dry, well ventilated place away from sources of heat, ignition and direct sunlight. No smoking. Prevent unauthorized access. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

#### Advice on common storage

Store separately from oxidizing agents, strongly alkaline and strongly acidic materials, amines, alcohols and water. Precautions should be taken to avoid exposure to atmospheric humidity or water. Evolution of CO<sub>2</sub> in closed containers causes overpressure and produces a risk of bursting.

#### Additional information on storage conditions

Precautions should be taken to avoid exposure to atmospheric humidity or water. Humid air and/or water will produce carbon dioxide which will pressurize the container. Open drum carefully as content may be under pressure.

## 8. Exposure controls/personal protection

### Additional technical information on the plant

Provide adequate ventilation. Air-fed protective respiratory equipment must be worn by spray operator even when good ventilation is provided. During spray operations, use spray booth fitted to airflow requirements of AS/NZS 4114.

### National occupational exposure limits

CAS-No.	Chemical name	Values	Control Parameters	Basis
28182-81-2	Hexamethylene diisocyanate, oligomers	STEL	0.07 mg/m <sup>3</sup>	NOHSC:1003(2003)
		TWA	0.02 mg/m <sup>3</sup>	NOHSC:1003(2003)
141-78-6	ethyl acetate	STEL	1,440 mg/m <sup>3</sup>	NOHSC:1003(2003)
			400 ppm	NOHSC:1003(2003)
		TWA	720 mg/m <sup>3</sup>	NOHSC:1003(2003)
			200 ppm	NOHSC:1003(2003)
123-86-4	n-butyl acetate	STEL	950 mg/m <sup>3</sup>	NOHSC:1003(2003)
			200 ppm	NOHSC:1003(2003)
		TWA	713 mg/m <sup>3</sup>	NOHSC:1003(2003)
			150 ppm	NOHSC:1003(2003)
103-09-3	2-ethylhexyl acetate			no exposure standard allocated

### Protective equipment

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Personal protective equipment should be worn to prevent contact with eyes, skin or clothing.

## Respiratory protection

For spraying: air-fed respirator. For operations other than spraying: in well ventilated areas, air-fed respirators could be replaced by a combination of charcoal filter and particulate filter mask.

## Hand protection

The breakthrough time of gloves is unknown for the product itself. The glove material given is recommended on basis of the substances in the preparation.

Chemical name	Glove material	Glove thickness	Break through time
ethyl acetate	Nitrile rubber	0.33 mm	10 MIN
	Viton (R) ®	0.7 mm	480 MIN
n-butyl acetate	Viton (R) ®	0.7 mm	10 MIN
	Nitrile rubber	0.33 mm	30 MIN

The protective glove should be checked in each case for their work specific suitability (e.g. mechanical stability, product compatibility, and anti-static properties). When the intended use is for spray application a nitrile glove of the chemical resistance group 3 (e.g. Dermatril® glove) is to be used. After contamination, the glove has to be changed. If immersing the hands into the product is not avoidable (e.g. maintenance work) a butyl or fluorocarbon rubber glove should be used. When skin exposure may occur to materials specified in section 3 of this SDS, advice should be sought from the glove supplier as to appropriate type to use with this product and the permeation breakthrough times. Care should be taken when working with sharp edged articles as these can easily damage the gloves and make them ineffective. The instructions and information provided by the glove supplier on use, storage, maintenance and replacement must be followed. Damaged gloves or those showing signs of wear should be replaced immediately.

## Eye protection

Wear protective eyewear for protection against solvent spatter.

## Skin and body protection

Wear suitable protective clothing. Personnel should wear antistatic clothings made of natural fiber or of high temperature resistant synthetic fiber.

## Hygiene measures

Wash skin thoroughly with soap and water or use recognized skin cleanser. Do not use organic solvents!

## Environmental exposure controls

Do not let product enter drains.

For ecological information refer to section 12.

## 9. Physical and chemical properties

### Information on basic physical and chemical properties

#### Appearance

**Form:** liquid; **Colour:** clear; **Odour:** Odour is not perceptible.; **Odor Threshold :** No data available;

#### Important health, safety and environmental information

Property	Value	Method
pH	pH cannot be measured due to less solubility in water.	
Melting point/freezing point	Not applicable.	
Boiling point/boiling range	70 °C	
Flash point	13 °C	DIN 53213/ISO 1523
Evaporation rate	Slower than Ether	
Flammability (solid, gas)	not relevant as product is liquid	
Lower explosion limit	1.2 vol-% based on organic solvent content	
Upper explosion limit	11.4 vol-% based on organic solvent content	
Vapour pressure	14.5 hPa	
Vapour density	No data available	
Density	1.09 g/cm <sup>3</sup>	20 °C - DIN 53217/ISO 2811
Solubility(ies)		
Water solubility	moderate	
Solubility in other solvents	miscible with most organic solvents Listed in: Section 3. Composition/information on ingredients	

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Partition coefficient: n-octanol/water	This product is a mixture. For ingredient details see section 12	
Auto-ignition temperature	268 °C	DIN 51794 based on organic solvent content
Decomposition temperature	This product is a mixture. For further information see section 10.	
Viscosity (23 °C)	<20 s	ISO 2431 - 1993 6 mm
Explosive properties	Not explosive	
Oxidizing properties	not oxidizing	

## Other data

Solvent separation test	< 3%	ADR/RID
Content of volatile components (including water)	25.0 %	Basis Vapour pressure >= 0.01 kPa
organic solvent content	25.0 %	Basis Vapour pressure >= 0.01 kPa

## 10. Stability and reactivity

### Stability

Stable

### Conditions to avoid

Stable under recommended storage and handling conditions (see section 7).

### Materials to avoid

Keep away from oxidizing agents and strongly acid or alkaline materials. Amines and alcohols cause exothermic reactions. Mixture reacts slowly with water resulting in evolution of CO<sub>2</sub>. Evolution of CO<sub>2</sub> in closed containers causes overpressure and produces a risk of bursting.

### Hazardous decomposition products

When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide, smoke, oxides of nitrogen as well as hydrogen cyanide, amines, alcohols and water.

### Hazardous Polymerization

Will not occur.

### Sensitivity to Static Discharge

Solvent vapors in air may explode if static grounding and bonding is not used during transfer of this product.

### Sensitivity to Mechanical Impact

None known.

## 11. Toxicological information

### Information on likely routes of exposure

#### Inhalation

May cause nose and throat irritation. May cause nervous system depression characterized by the following progressive steps: headache, dizziness, nausea, staggering gait, confusion, unconsciousness. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage. Exposure to isocyanates may cause respiratory sensitization. This effect may be permanent. Symptoms include an asthma-like reaction with shortness of breath, wheezing, cough or permanent lung sensitization. This effect may be delayed for several hours after exposure. Repeated overexposure to isocyanates may cause a decrease in lung function, which may be permanent. Individuals with lung or breathing problems or prior reactions to isocyanates must not be exposed to vapors or spray mist of this product.

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## Skin or eye contact

May cause irritation or burning of the eyes. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis.

## Delayed and immediate effects and also chronic effects from short and long term exposure:

### Acute oral toxicity

not hazardous

### Acute dermal toxicity

not hazardous

### Acute inhalation toxicity

Not classified according to GHS criteria

% of unknown composition: 0 %

### Skin corrosion/irritation

Not classified according to GHS criteria

### Serious eye damage/eye irritation

ethyl acetate Category 2A  
2-ethylhexyl acetate Category 2B

### Respiratory sensitisation

Not classified according to GHS criteria

### Skin sensitisation

Hexamethylene diisocyanate, oligomers Category 1

### Germ cell mutagenicity

not hazardous

### Carcinogenicity

Not classified according to GHS criteria

### Toxicity for reproduction

Not classified according to GHS criteria

### Target Organ Systemic Toxicant - Single exposure

- Inhalation

reproductive organs ethyl acetate

### Target Organ Systemic Toxicant - Repeated exposure

not hazardous

### Aspiration toxicity

Not classified according to GHS criteria

### Numerical measures of toxicity (acute toxicity estimation (ATE),etc. )

No information available.

**Symptoms related to the physical, chemical and toxicological characteristics**

Based on the properties of the isocyanate components and considering toxicological data on similar products, the following applies: This formulation may cause acute irritation and/or sensitization of the respiratory system leading to an asthmatic condition, wheeziness and a tightness of the chest. Sensitized persons may subsequently show asthmatic symptoms when exposed to atmospheric concentrations well below the OEL. Repeated exposure may lead to permanent respiratory disability. Exposure to component solvents vapours concentration 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. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. Through skin resorption, solvents can cause some of the effects described here. 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. The liquid splashed in the eyes may cause irritation and reversible damage. Components of the product may be absorbed into the body through the skin.

**12. Ecological information****Ecotoxicity effects**

There are no data available on the product itself. The product should not be allowed to enter drains or watercourses. The data in this section is consistent with data from chemical safety reports available at the date of revision.

**Persistence and degradability**

No information available.

**Bioaccumulation**

No information available.

**Mobility in soil**

No information available.

**Other adverse effects**

No information available.

**13. Disposal considerations**

Incinerate or otherwise dispose of waste material in accordance with local regulations. The product should not be allowed to enter drains, water courses or the soil. Do not incinerate in closed containers.

**Contaminated packaging**

Empty containers should be taken to an approved waste handling site for recycling or disposal. If recycling is not practicable, dispose of in compliance with local regulations.

**14. Transport information**

Transport in accordance with the requirements of the Carriage of Dangerous Goods by Road and Rail (Classifications, Packaging and Labeling), ADG for road, IMDG for sea and ICAO/IATA for air transport.

**ADG (Land transport)**

Proper shipping name: PAINT RELATED MATERIAL

UN number: 1263

Hazard Class: 3

Subsidiary Hazard Class: Not applicable.

Environmental hazards: none

Packing group: II

Hazchem: 3YE

**IMDG (Sea transport)**

Proper shipping name: PAINT RELATED MATERIAL

UN number: 1263

Hazard Class: 3



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Subsidiary Hazard Class: Not applicable.  
Environmental hazards: none  
Packing group: II  
Marine Pollutant: no  
EmS: F-E,S-E

#### ICAO/IATA (Air transport)

Proper shipping name: PAINT RELATED MATERIAL

UN number: 1263  
Hazard Class: 3  
Subsidiary Hazard Class: Not applicable.  
Environmental hazards: none  
Packing group: II

#### Matters needing attention for transportation

Confirm that there is no breakage, corrosion, or leakage from the container before shipping. Be sure to prevent damage to cargo by loading so as to avoid falling, dropping, or collapse. Ship in appropriate containers with denotation of the content in accordance with the relevant statutes and rules.

## 15. Regulatory information

#### Symbol and indication of hazard.

F	Highly flammable
Xn	Harmful
Contains	Hexamethylene diisocyanate, oligomers 70 - 80%.

#### R-phrases(s)

R11	Highly flammable.
R20	Harmful by inhalation.
R37	Irritating to respiratory system.
R42/43	May cause sensitisation by inhalation and skin contact.
R66	Repeated exposure may cause skin dryness or cracking.

#### S-phrases(s)

S23	Do not breathe vapour.
S24	Avoid contact with skin.
S33	Take precautionary measures against static discharges.
S37	Wear suitable gloves.
S38	In case of insufficient ventilation, wear suitable respiratory equipment.
S45	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Contains isocyanates. See information supplied by the manufacturer.

#### National regulatory information

- Standard for the Uniform Scheduling of Medicines and Poisons
  - Schedule 6
- Information about Other Regulations.
  - Not applicable

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## 16. Other information

Sources of key data used to compile the datasheet

1. Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals, December 2011
2. Guidance on the Classification of Hazardous Chemicals Under The WHS Regulations, April 2012
3. Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment
4. Australian Dangerous Goods Code, 7.3 (National Road Transport Commission)
5. Standard for the Uniform Schedule of Medicines and Poisons (SUSMP), No. 9
6. Labelling of Workplace Hazardous Chemicals Code of Practice, March 2015

### Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

### Report version

Version	Changes
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3.1	2, 3, 5, 8, 9, 10
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1250051229

End of Safety Data Sheet