



SAFETY DATA SHEET

540101 (Activator for 5401)

1. Identification of the preparation and of the company

Product name and/or code : 540101 (Activator for 5401)
Product use : Andrews Coatings Ltd. Carver Building, Littles Lane
Manufacturer : Wolverhampton, West Midlands, WV1 1JY
 Telephone Number: 01902 429190, Fax Number: 01902 426574
Emergency phone: Email: sales@andrewscoatings.co.uk

2. Composition/information on ingredients

Substances presenting a health or environmental hazard within the meaning of the Dangerous Substances Directive 67/548/EEC.

Chemical name*	CAS no.	%	EC nr.	Classification
United Kingdom (UK)				
Benzyl alcohol	100-51-6	25 - 50	202-859-9	Xn; R20/22
3-Aminomethyl-3,5,5-trimethyl cyclohexylamine	2855-13-2	25 - 50	220-666-8	Xn; R21/22 C; R34 R43 R52/53
Cyclo-aliphatic polyamine adduct		25 - 50		Xi; R38
See section 16 for the full text of the R-phrases declared above				

Occupational exposure limits, if available, are listed in section 8.

3. Hazards identification

The preparation is classified as dangerous according to Directive 1999/45/EC and its amendments.

Classification : Xn; R20/21/22
C; R34
R43
R52/53

Human health hazards : Harmful by inhalation, in contact with skin and if swallowed. Causes burns. May cause sensitization by skin contact.

Environmental hazards : Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

4. First aid measures

First aid measures

General : In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

Inhalation : Inhalation not likely under normal use conditions. In case of accident by inhalation: remove casualty to fresh air and keep at rest. If breathing is difficult, administer oxygen.

Skin contact : Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do not use solvents or thinners.

Eye contact : Check for and remove any contact lenses. Hazardous by the following route of exposure:

Ingestion : If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do not induce vomiting.

5. Fire-fighting measures

Extinguishing media : Recommended: alcohol-resistant foam, CO₂, powders, water spray.
Not to be used : water jet.

Recommendations : Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard. Appropriate breathing apparatus may be required. Cool closed containers exposed to fire with water. Do not release runoff from fire to sewers or waterways.

Hazardous combustion products : Decomposition products may include the following materials:
carbon oxides
nitrogen oxides

6. Accidental release measures

- Personal precautions** : Provide adequate ventilation. Refer to protective measures listed in sections 7 and 8.
- Spill** : Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Do not allow to enter drains or watercourses. Preferably clean with a detergent. Avoid using solvents. If the product contaminates lakes, rivers, or sewers, inform the appropriate authorities in accordance with local regulations.

Note: see section 8 for personal protective equipment and section 13 for waste disposal.

7. Handling and storage

- Handling** : Keep container tightly closed. Keep away from heat, sparks and flame. No sparking tools should be used.
- Avoid contact with skin and eyes. Avoid the inhalation of dust, particulates, spray or mist arising from the application of this preparation. Avoid inhalation of dust from sanding.
- Eating, drinking and smoking should be prohibited in area where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking.
- Put on appropriate personal protective equipment (see section 8).
- Comply with the health and safety at work laws.
- Storage** : Store in accordance with local regulations. Observe label precautions. Do not store above 35°C (95°F). Store in a cool, well-ventilated area away from incompatible materials and ignition sources.
- Keep away from: oxidizing agents, strong alkalis, strong acids.
No smoking. Prevent unauthorized access. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.
Do not empty into drains..

8. Exposure controls/personal protection

- Engineering measures** : 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 vapors below the OEL, suitable respiratory protection must be worn.

Ingredient name

Occupational exposure limits

Exposure controls

- Occupational exposure controls** : No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
- Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
- Respiratory protection** : A respirator is not needed under normal and intended conditions of product use.
- Hand protection** : >8 hours (breakthrough time): Wear suitable gloves : neoprene (EN 374-1) .
- Eye protection** : Recommended: safety glasses with side-shields (EN 166) . Goggles, face shield or other full-face protection should be worn if there is a risk of direct exposure to aerosols or splashes.
- Skin protection** : Recommended: Wear overalls or long sleeved shirt. (EN 467) .
- Other protection** : Additional body garments should be used to avoid exposed skin surfaces (e.g. sleevelets, apron, disposable suit etc.), based on the task being performed.
- Environmental exposure controls** : Air monitoring can be used to determine ventilation requirements and compliance with applicable employee exposure limits.

Environmental exposure controls

Do not allow to enter drains or watercourses.

9. Physical and chemical properties

Physical state	: Liquid. (Thick, oily liquid.)
Odor	: Faint odor.
Color	: Amber.
Flash point	: > 130 °C
Boiling point	: > 200 °C
Vapor pressure	: <0.01 kPa (<0.1 mm Hg) (at 20°C)
Vapor density	: >1 (Air = 1)
Volatility %	: 0% (v/v). 0% (w/w).
VOC content w/w	: 0 (g/l).
Solubility	: Partially soluble in the following materials: acetone. Insoluble in the following materials: cold water.
Relative density	: 1,01
pH	: 10 - 12

10. Stability and reactivity

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

Hazardous decomposition products: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.

Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids.

11. Toxicological information

There is no data available on the preparation itself. The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and classified for toxicological hazards accordingly. See sections 2 and 15 for details.

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

Contains (3-Aminomethyl-3,5,5-trimethylcyclohexylamine). May produce an allergic reaction.

12. Ecological information

There is no data available on the preparation itself.
Do not allow to enter drains or watercourses.

The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and is classified for eco-toxicological properties accordingly. See sections 2 and 15 for details.

Aquatic ecotoxicity

Product/ingredient name	Test	Result	Species	Exposure
Benzyl alcohol	-	Acute EC50 55 mg/L	Daphnia - Daphnia magna	24 hours
	-	Acute IC50 700 mg/l	Algae	72 hours
	-	Acute LC50 100 mg/L	Fish - Bluegill sunfish (Iepomis macrochirus)	96 hours
	Mortality	Acute LC50 646 mg/L	Fish - Golden orfe (leuciscus idus)	48 hours
3-Aminomethyl-3,5,5-trimethyl cyclohexylamine	Mortality	Acute LC50 460 mg/L	Fish - Fathead minnow (pimephales promelas)	96 hours
	Intoxication	Acute EC50 37,4 mg/L	Daphnia	24 hours
	Intoxication	Acute EC50 17,4 mg/L	Daphnia	48 hours

Ecological information

Conclusion/Summary : According to EC criteria: Not expected to be readily biodegradable

Bioaccumulative potential

Product/ingredient name	LogP_{ow}	BCF	Potential
Benzyl alcohol	1.1	-	low
3-Aminomethyl-3,5,5-trimethyl cyclohexylamine	1.9	-	low

13. Disposal considerations

Do not allow to enter drains or watercourses.

Dispose of according to all federal, state and local applicable regulations.

European waste catalogue (EWC) : The European Waste Catalogue classification of this product, when disposed of as waste, is: 08 01 11* waste paint and varnish containing organic solvents or other dangerous substances. If this product is mixed with other wastes, this code may no longer apply. If mixed with other wastes, the appropriate code should be assigned. For further information, contact your local waste authority.

Hazardous waste : Yes.

14. Transport information

Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

International transport regulations

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
ADR/RID Class	2735	Polyamines, liquid, corrosive, n.o.s. Limited quantity (Isophoronediamine)	8	III		<p>Hazard identification number 80</p> <p>Limited quantity LQ7</p> <p>Remarks Limited Quantity - ADR/IMDG 3.4.6</p>
IMDG Class	2735	Polyamines, liquid, corrosive, n.o.s. Limited quantity (Isophoronediamine)	8	III		<p>Partially soluble in the following materials: F-A, S-B</p> <p>Remarks (< 5 Ltr:) Limited quantity</p>
IATA Class	2735	Polyamines, liquid, corrosive, n.o.s. (Isophoronediamine)	8	III		<p>Passenger and Cargo Aircraft Quantity limitation: 5 L</p> <p>Cargo Aircraft Only Quantity limitation: 60 L</p> <p>Limited Quantities - Passenger Aircraft Quantity limitation: 1 L</p>

PG* : Packing group

15. Regulatory information

EU regulations

: The product is classified and labelled for supply in accordance with the Directive 1999/45/EC as follows:

Hazard symbol(s)



Corrosive

Risk phrases

: R20/21/22- Harmful by inhalation, in contact with skin and if swallowed.
R34- Causes burns.
R43- May cause sensitization by skin contact.
R52/53- Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety phrases

: S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36/37/39- Wear suitable protective clothing, gloves and eye/face protection.
S45- In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
S46- If swallowed, seek medical advice immediately and show this container or label.
S56- Dispose of this material and its container at hazardous or special waste collection point.
S61- Avoid release to the environment. Refer to special instructions/safety data sheet.

Contains

: Benzyl alcohol
3-Aminomethyl-3,5,5-trimethyl cyclohexylamine

Europe inventory

: **Europe inventory:** Not determined.

Other EU regulations

CN code

: 3824 90 70

National regulations

Industrial use

: The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation. The provisions of the national health and safety at work regulations apply to the use of this product at work.

16. Other information

CEPE Classification	: 1
Full text of R-phrases referred to in sections 2 and 3 - United Kingdom (UK)	: R20/21/22- Harmful by inhalation, in contact with skin and if swallowed. R20/22- Harmful by inhalation and if swallowed. R21/22- Harmful in contact with skin and if swallowed. R34- Causes burns. R38- Irritating to skin. R43- May cause sensitization by skin contact. R52/53- Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

The information in this Safety Data Sheet is required pursuant to EU Directive 91/155/EEC and its amendments.

Notice to reader

The information in this SDS is based on the present state of our knowledge and on current laws. The product is not to be used for purposes other than those specified under section 1 without first obtaining written handling instructions. It is always the responsibility of the user to take all necessary steps to fulfill the demands set out in the local rules and legislation. The information in this SDS is meant to be a description of the safety requirements for our product. It is not to be considered a guarantee of the product's properties. ©Copyright by Rust-Oleum Netherlands B.V. / Martin Mathys B.V.



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