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**IDENTIFICATION of the SUBSTANCE(S) and COMPOSITION**

Product Name	FLEXI ADD	Code	FA
Product Use	Use as an additive to improve the flexibility of acrylic topcoats.		
Ingredients	Name	CAS Number	Proportion w/w
	Toluene	108 – 88 – 3	10 – <30 %
	Aliphatic Esters	Mixture	10 – <30 %
	Polymeric Synthetic Resins (Non – Hazardous)	Mixture	30 – 60 %
	Additives (Non – Hazardous)	Mixture	1.0 – <10 %

HAZARD IDENTIFICATION

The product is classified as both **Dangerous Goods and Hazardous Substance** in accordance to ASCC

Risk Phrases R

- 11 Highly Flammable Liquid
 21/22 Harmful in contact with the skin and if swallowed.
 36/37/38 Irritating to the eyes, respiratory system and skin.
 48/20 Harmful: Danger of serious damage to health by prolonged exposure through inhalation.
 51/53 Toxic to aquatic organisms and may cause long term adverse effects in the aquatic environment.
 63 Causes foetotoxicity in animals at doses which are maternally toxic.
 65/66/67 Harmful. May cause lung damage if swallowed. Repeated or prolonged exposure may cause skin dryness and cracking. Vapours may cause headaches, drowsiness and dizziness.

Safety Phrases S

- 2 Keep out of reach of children.
 7/9 Keep containers tightly closed when not in use and also in a well ventilated area.
 15 Keep away from heat.
 16/33 Keep away from sources of ignition. Take precautionary measures against static electricity.
 20/21 When using, do not eat, drink or smoke.
 23.2 Do not breathe vapours.
 24/25 Avoid skin contact and with the eyes.
 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
 27 Take off immediately all contaminated clothing.
 28.1 In contact with the skin, wash immediately soap and plenty of water.
 36/37/38/39 The wearing of an Organic Vapour Respirator, Safety Glasses fitted with side – shields, Viton or PVC gloves, hair protection, enclosed footwear, high temperature and anti – static clothing.
 45 In case of accident, or if you feel unwell, seek medical advice immediately. Show the label where possible.
 62 If swallowed, do not induce vomiting: seek medical advice immediately. Show the label where possible.

HAZARD IDENTIFICATION (continued)

ADG Classification PAINT, immiscible in water, UN 1263, HAZCHEM 3[**Y**]E, Class 3,
Packing Group II, Initial Emergency Response Guide 14.

SUSDP Classified as a Schedule S 5 poison

FIRST AID MEASURES

Inhalation If the applicator feels drowsy, dizzy, tired or experiencing headaches, remove the victim to the fresh air. Keep the victim warm and quiet until all symptoms subside.

Ingestion If swallowed, and only if the person is conscious, give plenty of water to drink. Do **NOT** induce vomiting. Seek medical attention if any symptoms occur.

Eyes If splashed into eyes, hold eyes open, irrigate copiously with clean water for at least 15 minutes. Seek immediate medical attention if any irritation occurs.

Skin and Hair If skin or hair contact occurs, remove all contaminated clothing, flush skin and hair with running water. Seek medical attention if any irritation occurs.

First Aid Facilities Clean Water Supply, soap or skin cleaner, barrier cream, emergency showers and eye wash stations.

Advice to Doctor If poisoning occurs, consult with the Poisons Information Centre {Telephone **13 11 26**}. Have a copy of this material safety data sheet or label available. Treat symptomatically as systems may be delayed for several hours after exposure.

**FIRE FIGHTING MEASURES**

Extinguishing Media and Requirements Carbon Dioxide {CO₂}, alcohol resistant foam, dry chemical or water spray. **DO NOT** use water jets. Bund area with sand to prevent run – off entering waterways and drains.

Fire Fighting Procedures & Precautions Fire – fighters **must** wear Chemical Splash Suit with attached Self – Contained Breathing Apparatus and gloves. Evacuate all non fire–fighting personnel away from the area. Turn off all electricity and power supplies. Keep containers cool with water spray or water to prevent rupture or burning. Move away all containers and equipment from the direction of the fire, if safe to do so. Keep upwind.

Flammability Highly Flammable Liquid. Flash Point = - 4 °C

Hazardous Decomposition Products On heating, containers may rupture and explode: contents may burn rapidly forming toxic gases including carbon monoxide.



ACCIDENTAL RELEASE MEASURES

Spills and Leaks	Contain all spills and leaks. Avoid contamination with spilt material on surfaces. Remove all sources of ignition and NO SMOKING . Wear the recommended full body impervious clothing, gloves and breathing apparatus as per AS– NZ 1715/16. Keep upwind. Absorb all spilt contents onto sand or earth.
Disposal	Collect all residues into labelled and sealed containers for disposal via special waste collection services as per local Statutory Authority requirements.
Other Precautions	Avoid contaminating waterways, drains, water courses and sewage.

**HANDLING and STORAGE**

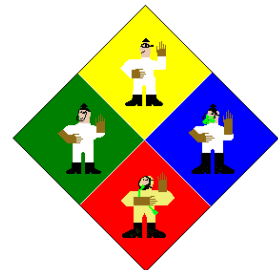
Handling	Keep out of reach of children. Avoid unnecessary contact with the material. After use before eating, drinking or smoking wash all exposed skin and hair with soap and water.
Storage	Containers must be clearly labelled, rigid and strong. Store upright in a cool, dry, well ventilated area from heat, ignition sources and direct sunlight e.g. Flammable Goods Store as per AS 1940 requirements.

EXPOSURE CONTROLS

Exposure Standards MAK	Toluene = 190 mg/m ³ .	Aliphatic Esters = Not Known
Exposure Standards STEL	Toluene = 565 mg/m ³ .	
Engineering Controls	The use of local exhaust ventilation equipment is required. All ventilation equipment must be fitted with flame and explosion proof electrical fittings.	

PERSONAL PROTECTION

Inhalation AS –NZS 1715/16	The wearing of an Organic Vapour Respirator must be worn during handling and spray application period.
Eye AS –NZS 1337	The wearing of safety glasses fitted with side shields must be worn during handling and spray application period. Do not wear contact lenses.
Gloves AS –NZS 2161	The wearing of Viton or PVC gloves must be worn during handling and spray application period.
Footwear AS –NZS 2210	The wearing of enclosed footwear must be worn handling and spray application period.
Clothing AS –NZS 2919	The wearing of anti–static clothing made on natural or synthetic high temperature fibre must be worn handling and spray application period.
Hearing AS –NZS 1270	Not required.
Other Requirements	Avoid contact with eyes, skin and hair. The wearing of recommended Personal Protective Equipment as described including hair protection must be worn when handling period.



PHYSICAL – CHEMICAL PROPERTIES

Appearance	A colourless liquid with a strong odour.	
pH	Not required.	
Vapour Pressure (Butyl Acetate = 1)	Greater than 1.0	
Boiling Point °C	80 – 150 °C {literature value}	
Density	0.99 {calculated value}	
Solubility in water	Immiscible	
Flash Point °C	- 4 °C {literature value}	
Flammability	Lower Explosive Limit = 1.0 %	Upper Explosive Limit = 13.0 %
Limits		
Auto Ignition °C	315 °C {literature value}	
Volatile	Organic Solvents.	
Components		

STABILITY and REACTIVITY

Chemical Stability	Stable under normal conditions of use.	
Conditions to avoid	Avoid contact with heat and all ignition sources.	
Hazardous decomposition products	On heating, containers may rupture and explode: contents may burn rapidly forming toxic gases including carbon monoxide.	
Incompatible materials	Incompatible with strong oxidizing agents	
Hazardous Reactions	Will not polymerize.	

TOXICOLOGICAL INFORMATION

<i>Health Effects</i>	<i>Risk Phrase</i>	<i>Toluene</i>	<i>Aliphatic Esters (mixture)</i>
Inhalation LC ₅₀ rat	20	>20 mgm/L	>20 mgm/L
Dermal LD ₅₀ rabbit	21	>2000 mgm/kg	>2000 mgm/kg
Oral LD ₅₀ rat	22	640 mgm/kg	>2000 mgm/kg

Note

Risk phrases R20/21/22 has been assigned by the EEC Council Directive 67/548/EEC.

Risk Phrases R20/21/22 – Harmful by inhalation, skin contact or if swallowed.

Acute Oral Toxicity rat	Moderate toxicity. Aspiration into lungs when swallowed or vomited may cause chemical pneumonitis which can be fatal.
Acute Dermal Toxicity rabbit	Low toxicity
Acute Inhalation Toxicity rat	Low toxicity. High concentrations may cause central nervous system depression resulting in headaches, dizziness, nausea, loss of co-ordination and impaired judgement: continued inhalation may result in unconsciousness and/or death.

OTHER TOXICOLOGICAL INFORMATION (continued)**Other Health Effects**

Inhalation	Vapours may cause dizziness and drowsiness.
Ingestion	May cause lung damage if swallowed.
Eyes	Irritating to the eyes, including burning sensation, redness, swelling and/or blurred vision.
Skin	Irritating on the skin may result in contact dermatitis. Repeated or prolonged exposure may cause skin dryness or cracking.
Carcinogenicity	Not carcinogenic in animal studies.
Mutagenicity	Not mutagenic in animal studies
Reproductive Toxicity	Causes foetotoxicity in animals at doses which are maternally toxic. Does not impair fertility.

ECOLOGICAL INFORMATION

Environment	Toxic to aquatic organisms (R51). May cause long – term adverse effects in the aquatic environment (R53).
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DISPOSAL CONSIDERATIONS

Collect all residues and placed into labelled and sealed containers. Do not incinerate empty containers after use. Dampen all unwanted cloths and rags in water prior to disposal. Do not recycle contents or spent containers. Crush all small empty containers. Larger containers and drums may be sent to an approved drum recycler. Ensure all contents do not pollute waterways, drains and other water courses.

**TRANSPORT INFORMATION**

UN number	1263		
Proper Shipping Name	PAINT, immiscible in water		
Class	3	Subsidiary Risk	Not Required
Packing Group	II	Initial Emergency Response Guide	14
Emergency Procedures	3300		
HAZCHEM	3[<input checked="" type="checkbox"/>]E		
IMDG	Not Known		

**REGULATORY INFORMATION**

SUSDP	Classified as a Schedule S 5 poison.
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OTHER INFORMATION**Emergency
Contact
Disclaimer****Poisons Information Centre 13 11 26****HiChem Paint Technologies
(03) 9796 3400**

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