A NEW FORCE IN CHEMICAL MANUFACTURING

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SAFETY DATA SHEET

ISSUED SEPTEMBER 2014 (VALID 5 YEARS FROM DATE OF ISSUE)

EP ETCH PRIMER AEROSOL

SECTION 1 - IDENTIFICATION OF THE MATERIAL

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PRODUCT NAME	Etch Primer Aerosol
PRODUCT TYPE	Protective Primer Paint in Aerosol form
PART NUMBER	CT-EPGY-400, CT-EPBK-400
AVAILABLE SIZES	400g

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS COMPONENTS	CAS #	%	HSIS TWA	HSIS STEL
Polymeric synthetic resins	Proprietary	<50		
Butanone	78-93-3	<40	150ppm (445mg/m^3)	300ppm (890mg/m^3)
Ethyl alcohol	64-17-5	<30	1000ppm (1880mg/m^3)	
Toluene	108-88-3	<20	50ppm (as dust)	150ppm (574mg/m^3)
Talc (containing no asbestos fibre)	14807-96-6	<40	2.5mg/m^3 (as dust)	
Pigments (lead and chromate free)	Not available	Remainder		
Non-hazardous ingredients	Not available	<10		
Dimethyl ether	115-10-6	10-30	400ppm (760mg/m^3)	500ppm (950mg/m^3)

SECTION 3 - HAZARDS IDENTIFICATION

Hazard Classification: Hazardous Substance, Dangerous Goods. According to the criteria of SafeWork Australia and the ADG Code

F+, Xi, Xn

Risk Phrases:

R12 Extremely Flammable.
R20/21 Harmful by inhalation and in contact with skin.
R38 Irritating to skin.
R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R62 Possible risk of impaired fertility.
R63 Possible risk of harm to the unborn child.
R65 Harmful: may cause lung damage if swallowed.
R67 Vapours may cause drowsiness and dizziness

Safety Phrases: S16 Keep away from sources of ignition - No smoking.
S2 Keep out of reach of children.
S23 Do not breathe gas/fumes/vapour/spray
S24/25 Avoid contact with skin and eyes.
S29 Do not empty into drains.
S36/37 Wear suitable protective clothing and gloves.
S45 In case of accident or if you feel unwell seek medical advice immediately
S53 Avoid exposure - obtain special instructions before use.
S61 Avoid release to the environment. Refer to special instructions/safety data sheet.
S62 If swallowed, do not induce vomiting; seek medical advice immediately and show this container or label.
S9 Keep container in a well-ventilated place.

Overview: POISON! DANGER! HARMFUL OR FATAL IF SWALLOWED. HARMFUL IF INHALED OR ABSORBED THROUGH SKIN. VAPOR HARMFUL. FLAMMABLE LIQUID AND VAPOR. MAY AFFECT LIVER, KIDNEYS, BLOOD SYSTEM, OR CENTRAL NERVOUS SYSTEM. CAUSES IRRITATION TO SKIN, EYES AND RESPIRATORY TRACT.

Relevant routes of exposure: Skin, Inhalation, Eyes

Potential Health Effects

Inhalation: May cause respiratory tract irritation. High concentrations of vapours may cause headache, fatigue, drowsiness and dizziness.

Skin contact: May cause allergic skin reaction. May cause skin irritation. Product has a defatting effect on skin. Prolonged contact may cause dryness of skin.

Eye contact: Contact with eyes will cause irritation.

SECTION 4 - FIRST AID MEASURES

Inhalation: Remove to fresh air. If symptoms develop and persist, get medical attention.

Skin contact: Wash with soap and water. Remove contaminated clothing and shoes. Wash clothing before reuse.
Get medical attention if symptoms occur.

Eye contact: Check for and remove any contact lenses. Immediately flush with copious amounts of water, preferably, lukewarm water for at least 15 minutes, holding eyelids open all the time. Get medical attention.

Ingestion: Do not induce vomiting. Give large quantities of water Rinse mouth thoroughly. Loosen any tight clothing. Keep individual calm. Obtain medical attention. If there are signs of intoxication (drunkenness) then serious health effects may follow (depending on the amount swallowed or inhaled). Treat unconsciousness by placing the person in the coma position. Apply artificial respiration if breathing stops. Immediate medical attention should be sought and the affected person transferred

and accompanied to the care of a doctor or hospital.

SECTION 5 - FIRE FIGHTING MEASURES

Flash point:	-81ºC (Closed Cup) Propellant
Autoignition temperature:	431ºC (Propellant)
Flammable/Explosive limits-lower %:	1.5
Flammable/Explosive limits-upper %:	10
Extinguishing media:	Alcohol resistant foam, dry chemical or carbon dioxide.
Special firefighting procedures:	Use water to cool exposed containers. Heating can cause expansion or decomposition leading to violent ruptures of containers. If safe to do so, remove containers from path of fire. Spills and leaks may be washed away with copious volumes of water, fog, or spray. For major fires or where the atmosphere is oxygen deficient or contains unacceptable levels of combustion products, fire-fighters must wear self-contained breathing apparatus with full face mask and protective clothing.
Unusual fire or explosion hazards:	None
Hazardous combustion products:	Oxides of carbon, Oxides of nitrogen. Keep run-off water out of sewers and water sources.
Hazchem Code:	2[Y]

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Environmental Precautions:	Extinguish all ignition sources. Ventilate well. Use approved respirator if air contamination is above accepted level. Prevent product from entering drains or open waters.
Clean-up Methods:	Soak up with inert absorbent. Store in a partly filled, closed container until disposal.

SECTION 7 - HANDLING AND STORAGE

Handling:	Wear suitable protective clothing**.** A void contact with eyes, skin and clothing. Avoid breathing vapour and mist. Wash thoroughly after handling.
Storage:	For safe storage, store at or below 38°C (100°F). Keep in a cool, well-ventilated area away from heat, sparks and open flame. Keep container tightly closed until ready for use. Store in accordance with AS 3833-96 and local regulations.
Incompatible products:	Refer to Section 10.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls:	No specific ventilation requirements noted, but forced ventilation may still be required if concentrations exceed occupational exposure limits.
Respiratory protection:	Use NIOSH approved respirator if there is potential to exceed exposure limit(s).
Skin protection:	Use impermeable gloves and protective clothing as necessary to prevent skin contact. Neoprene gloves. Butyl rubber gloves.

Eye/face protection: Safety goggles or safety glasses with side shields.
Eye wash facilities should be provided in all areas where the product is handled.

Exposure Limits: See *Section 2 - Composition/Information on Ingredients*

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Aerosol.
Colour: Opaque, grey.
Odour: Organic, Aromatic.
pH: Not available
Boiling point/range: 56-110ºC. Bulk
Melting point/range: -95ºC Bulk
Specific gravity: 0.8 at 20ºC. Bulk
Vapour density: 3.14 at 20ºC (air=1) Bulk
Evaporation rate: 2.24 (ASTM D-3539, nBuAc=1) Bulk
Solubility in water: Partially soluble.

SECTION 10 - STABILITY AND REACTIVITY

Stability: Stable under normal conditions of use.
Hazardous polymerization: Will not occur.
Hazardous decomposition products: Oxides of carbon.
Incompatibility: Strong oxidizers. Strong acids. Chlorine, Nitrogen tetroxide
Conditions to avoid: See "Handling and Storage" (Section 7) and "Incompatibility" (Section 10).

SECTION 11 - TOXICOLOGICAL INFORMATION

Acute and Chronic Health Effects: No data is available for this product and this information is based on the data of the ingredients which was available at the time of publication.
Also refer to section 2. Risk Phrases:
Danger of cumulative effects. (Xn)
Irritating to eyes, respiratory system and skin. (Xi)
Also danger of serious damage to health by prolonged exposure. (Xn), (T)
May cause harm to unborn child. (T)
Repeated exposure may cause skin dryness and cracking. (Xi)
Vapours may cause drowsiness and dizziness. (Xn)
Will increase the effects of alcohol. (T)
May cause lung damage if swallowed (T)

Possible Routes of Exposure: Also harmful by inhalation, in contact with skin and if swallowed. (T)
Irritating to eyes, respiratory system and skin. (Xi)
May cause harm to breastfed babies. (Xn)
Also harmful: may cause lung damage if swallowed. (Xn)
Vapours may cause drowsiness and dizziness. (T)

Acute Oral Toxicity: Low Toxicity LD_{50} >2000 mg/kg, body weight/day rat. Aspiration into the lungs when swallowed or vomited may cause chemical pneumonitis which can be fatal.

Acute Dermal Toxicity: Low Toxicity LD_{50} > 2000 mg/kg, body weight/day Rabbit.

Acute Inhalation Toxicity: LC_{50} > 20 mg/l 4 hours rat. Classified as harmful by the European commission.

Range of Effects Following Exposure

Acute – Inhaled Toxicity: The vapours/sanding and grinding dusts may irritate the eyes, nose and respiratory system. Other symptoms include adverse effects to the Central Nervous System, nausea, irritability, fatigue, loss of coordination, memory and sleep disorders. May cause delayed effects including depression resulting in headaches dizziness and nausea gastrointestinal, nervous and reproductive system, continued inhalation may result in unconsciousness and/or death.

Repeated Dose on Toxicity: Repeated exposure affects the central nervous system. Effects were seen at high doses only.

Auditory system: Exposure to high concentrations of Xylene (although not in this preparation) has resulted in hearing loss in rats.
Solvent abuse and noise interaction in the work environment may cause hearing loss.
Irregular Heart rhythm and cardiac arrest has also been associated with exposure to high concentrations of similar
products, and may have adverse effects to liver.

Dose Concentration or Conditions of Exposure likely to Cause injury:
Also refer sections 4 and 8 no other data available.

Delayed effects: Also refer sections 4 and 8 no other data available.

Mutagenicity: Not expected to be mutagenic

Carcinogenic: Not classified as a human carcinogen. Mixed Xylene (although not in this preparation) contains Ethyl benzene which has confirmed evidence of a carcinogenic effect in animals with unknown relevance to humans.
Talc contains small proportion of respirable crystalline silica as quartz (< 2%)
Carcinogen cat:3
No other data available.

Reproductive and Development Toxicity:
Causes foetotoxicity in animals at doses which are maternally Toxic.
May impair fertility.

Relevant Negative Data:
Exposure to very high concentrations of similar products to those contained in this material has been associated with irregular heart rhythms and cardiac arrest.

DIMETHYL ETHER:
Further information : May cause cardiac arrhythmia. Rapid evaporation of the liquid may cause frostbite.
TOXICITY
Dermal : not applicable
Oral : not applicable
Inhalation LC_{50} : 164000 ppm/4h , (rat)
Respiratory effects
Anaesthetic effects
Central nervous system depression narcosis Cardiac irregularities

SECTION 12 - ECOLOGICAL INFORMATION

Acute Toxicity Fish: LC_{50} 10-100mg/l/96hr

Mobility: Partly dissolves in water

If product enters soil, it will be highly mobile and may contaminate groundwater

Persistence/degradability: Biodegradable and volatile.

Environmental Fate: When released into the soil, this material may evaporate to a moderate extent. When released into the soil, this material is expected to leach into groundwater. When released into the soil, this material may biodegrade to a moderate extent. When released into water, this material may evaporate to a moderate extent. When released into water, this material may biodegrade to a moderate extent. When released into the air, this material may be moderately degraded by reaction with photochemically produced hydroxyl radicals. When released into the air, this material is expected to have a half-life of less than 1 day. This material is not expected to significantly bioaccumulate. This material has a log octanol-water partition coefficient of less than 3.0. Bioconcentration factor = 13.2 (eels)

SECTION 13 - DISPOSAL CONSIDERATIONS

Recommended method of disposal: Recover or recycle if possible. Dispose of according to Federal, State and local governmental regulations.

Container disposal: Drain container thoroughly. After draining, vent in a safe place away from sparks and fire. Recycle if possible.

SECTION 14 - TRANSPORT INFORMATION

ADG:

Proper shipping name: Aerosols
UN No.: 1950
Class: 2.1
Hazchem code: 2[Y]
Packing group: none

IMDG:

Proper shipping name: Aerosols
Identification No.: 1950
Class: 2
Packing group: none
Marine pollutant: No

IATA (country variations may occur):

Proper shipping name: Aerosols
Identification No.: UN 1950
Class: 2.1
Packing group: none

SECTION 15 - REGULATORY INFORMATION

Poisons Schedule (SUSDP): None

SECTION 16 – OTHER INFORMATION

Abbreviations/Acronyms: ACGIH – American Conference of Government Industrial Hygienists.

ADG – Australian Dangerous Goods.
HSIS - Hazardous Substances Information System.
IARC – International Agency for Research on Cancer.
NIOSH – National Institute of Occupational Health and Safety.
NOHSC – National Occupational Health and Safety Commission.
PEL – Permissible Exposure Limit.
STEL – Short Term Exposure Limit.
SUSDP – Standard for the Uniform Scheduling of Drugs and Poisons.
TLV – Threshold Limit Value.
TWA – Time Weighted Average.

DISCLAIMER

The information contained within this MSDS applies only to the Chemtools product to which the sheet relates.

The information provided is based on our best knowledge at the time of issue.

The information contained within this MSDS is believed to be accurate and is given in good faith. However, no warranty is made, either expressed or implied, regarding its accuracy or any liability arising out of the use of the information herein or the product supplied.

When used in other preparations, formulations, or in mixtures, it is necessary to ascertain whether the classifications of the hazards have changed. The attention of the user is drawn to the possibility of creating other hazards when the product is used for purposes other than that for which it was recommended. In such cases, a reassessment may be necessary and should be made by the user.

This safety data sheet should only be used and reproduced in order that the necessary measures are taken relating to the protection of health and safety at work.

It is the responsibility of the handlers to pass on the totality of the information contained within this document to any subsequent person(s) who will come in to contact with, handle or use this product in any way.

They should check the adequacy of the information provided within this MSDS before passing it on to their customers/staff.