



SAFETY DATA SHEET

A NEW FORCE IN CHEMICAL MANUFACTURING

AEROSOLS | WELDING CHEMICALS | ADHESIVES & THREADLOCKERS | ANTI-SEIZE & GREASES | CLEANING CHEMICALS & SOLVENTS | ELECTRICAL & ELECTRONICS

ISSUED OCTOBER 2020 (VALID 5 YEARS FROM THE DATE OF ISSUE)

SECTION 1: IDENTIFICATION OF THE MATERIAL AND SUPPLIER

SUPPLIER	CHEMTOOLS PTY LTD	PHONE	1300 738 250 (Business Hours)
ADDRESS	Unit 2, 14 – 16 Lee Holm Road ST MARYS NSW 2760	FAX	02 9623 3670
		WEBSITE	www.chemtools.com.au

PRODUCT NAME	GalMax™ Grey Oxide Metal Primer		
PART NUMBER	CT-GYP	PRODUCT TYPE	Industrial Primer/Undercoat
PRODUCT USE	Industrial structural steel primer for ferrous metals.		
CREATION DATE	October 2020	LATEST REVISION DATE	Refer to date of issue above

SECTION 2: HAZARDS IDENTIFICATION

Statement of Hazardous Nature Classified as HAZARDOUS according to the criteria of the Globally Harmonised System of Classification and Labelling of Chemicals (GHS).

SUSMP Classification Schedule 5

ADG Classification Classified as DANGEROUS GOODS by the criteria of the Australian Code for the Transport of Dangerous Goods by Road & Rail and the New Zealand NZS5433: Transport of Dangerous Goods on Land

UN Number 1263, PAINTS (XYLENE, TOLUENE, ISOHEXANE)

Hazchem Code 3YE

Packing Group II

GHS Signal Word DANGER

GHS Hazard Pictograms



HAZARDOUS CLASSIFICATIONS

Flammable Liquids	Category 2
Aspiration Hazard	Category 1
Acute Toxicity Dermal	Category 4
Acute Toxicity Inhalation	Category 4
Specific Target Organ Toxicity (Single Exposure)	Category 3 Narcotic Effects
Specific Target Organ Toxicity (Repeated Exposure)	Category 2
Skin Corrosion/Irritation	Category 2
Toxic to Reproduction	Category 1A
Chronic Aquatic Toxicity	Category 2

POISONS INFORMATION CENTER: 13 1126 FROM ANYWHERE IN AUSTRALIA (0800 764 766 FROM NEW ZEALAND)



SAFETY DATA SHEET

A NEW FORCE IN CHEMICAL MANUFACTURING

AEROSOLS | WELDING CHEMICALS | ADHESIVES & THREADLOCKERS | ANTI-SEIZE & GREASES | CLEANING CHEMICALS & SOLVENTS | ELECTRICAL & ELECTRONICS

PRODUCT NAME: GalMax™ Grey Oxide Metal Primer

Page 2 of 2

This revision issued October 2020

HAZARD STATEMENTS

H225	Highly flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H302	Harmful if inhaled.
H312	Harmful in contact with skin.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H360	May damage fertility or the unborn child.
H373	May cause damage to organs through prolonged and repeated exposure
H315	Causes skin irritation.
H411	Toxic to aquatic life with long lasting effects.

PREVENTION PRECAUTIONARY STATEMENTS

P102	Keep out of reach of children.
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical, ventilating, lighting and all other equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P260	Do not breathe dust, fumes, gas, mist, vapours, or spray.
P264	Wash hands, face and all exposed skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P391	Collect spillage

RESPONSE PRECAUTIONARY STATEMENTS

P101	If medical advice is needed, have product container or label at hand.
P301+P310	IF SWALLOWED: immediately call a POISONS CENTRE or doctor.
P303+P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P312	IF INHALED: Call a POISONS CENTRE or doctor if you feel unwell.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P308+P313	IF exposed or concerned: Get medical advice/attention.

POISONS INFORMATION CENTER: 13 1126 FROM ANYWHERE IN AUSTRALIA (0800 764 766 FROM NEW ZEALAND)



SAFETY DATA SHEET

A NEW FORCE IN CHEMICAL MANUFACTURING

AEROSOLS | WELDING CHEMICALS | ADHESIVES & THREADLOCKERS | ANTI-SEIZE & GREASES | CLEANING CHEMICALS & SOLVENTS | ELECTRICAL & ELECTRONICS

PRODUCT NAME: GalMax™ Grey Oxide Metal Primer

Page 3 of 3

This revision issued October 2020

P312	Call a POISONS CENTRE or doctor/physician if you feel unwell.
P331	Do NOT induce vomiting.
P332+P313	IF skin irritation occurs: Get medical advice/attention.
P337+P313	IF eye irritation persists: Get medical advice/attention.
P363	Wash contaminated clothing before reuse.
P370+P378	In case of fire: Use carbon dioxide, dry chemical, or foam for extinction.

STORAGE PRECAUTIONARY STATEMENTS

P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.

DISPOSAL PRECAUTIONARY STATEMENTS

P501	Dispose of contents/container in accordance with local, regional, national and international regulations.
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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients:

Chemical Entity	CAS Number	Proportion
Xylene	1330-20-7	< 25%
Toluol	108-88-3	< 20%
Solvent Naphtha (petroleum), light aliphatic	64742-89-8	< 20%
Isoheptanes	591-76-4	< 15%
Isohexane	73513-42-5	< 10%
1-Methoxy-2-propanol acetate; PM Acetate	108-65-6	< 10%
Ethyl Benzene	100-41-4	< 10%
Other ingredients considered to be non-hazardous rounding to 100%		

SECTION 4: FIRST AID MEASURES

General Advice	If poisoning occurs, contact a doctor or Poisons Information Centre (Australia 13 11 26, New Zealand 0800 764 766).
Inhalation	Remove source of contamination or move victim to fresh air - avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. If breathing laboured and patient cyanotic (blue), ensure airways are clear and have a qualified person give oxygen through a facemask preferably

POISONS INFORMATION CENTER: 13 1126 FROM ANYWHERE IN AUSTRALIA (0800 764 766 FROM NEW ZEALAND)



SAFETY DATA SHEET

A NEW FORCE IN CHEMICAL MANUFACTURING

AEROSOLS | WELDING CHEMICALS | ADHESIVES & THREADLOCKERS | ANTI-SEIZE & GREASES | CLEANING CHEMICALS & SOLVENTS | ELECTRICAL & ELECTRONICS

PRODUCT NAME: GalMax™ Grey Oxide Metal Primer

Page 4 of 4

This revision issued October 2020

Skin Contact

on a doctor's advice. If breathing has stopped apply artificial respiration at once. In the event of cardiac arrest, apply external cardiac massage. DO NOT allow victim to move about unnecessarily. Seek immediate medical advice.

This material, or a component of the material, can be absorbed through the skin with resultant toxic effects. If skin or hair contact occurs, immediately remove contaminated clothing and flush skin and hair with running water. Continue flushing with water until advised to stop by the Poisons Information Centre or a Doctor; or for 15 minutes and transport to Doctor or Hospital. For gross contamination, immediately drench with water and remove clothing. Continue to flush skin and hair with plenty of water (and soap if material is insoluble). For skin burns, cover with a clean, dry dressing until medical help is available. If blistering occurs, do NOT break blisters. If swelling, redness, blistering, or irritation occurs seek medical assistance.

Eye Contact

If in eyes, hold eyelids apart and flush the eyes continuously with running water. Take care not to rinse contaminated water into the unaffected eye or onto the face. Take special care if exposed person is wearing contact lenses. Obtain medical attention if irritation persists.

Ingestion

Immediately rinse mouth with water. If swallowed, do NOT induce vomiting. Give a glass of water to drink. Never give anything by the mouth to an unconscious patient. Immediately call Poisons Centre or Doctor. If vomiting occurs give further water.

Notes to Physician

Treat symptomatically.

SECTION 5: FIRE FIGHTING MEASURES

Hazchem Code

3YE

Suitable Extinguishing Media

If material is involved in a fire, use alcohol resistant foam or dry agent (carbon dioxide, dry chemical powder).

Specific Hazards

Highly flammable liquid and vapour. May form flammable vapour mixtures with air. Flameproof equipment necessary in area where this chemical is being used. Nearby equipment must be earthed. Electrical requirements for work area should be assessed according to AS3000. Vapour may travel a considerable distance to source of ignition and flash back. Avoid all ignition sources. All potential sources of ignition (open flames, pilot lights, furnaces, spark producing switches and electrical equipment etc) must be eliminated both in and near the work area. DO NOT SMOKE.

Fire Fighting Further Advice

Heating can cause expansion or decomposition leading to violent rupture of containers. If safe to do so, remove containers from path of fire. Keep containers cool with water spray. On burning or decomposing may emit toxic fumes. Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to vapour or products of combustion or decomposition.

POISONS INFORMATION CENTER: 13 1126 FROM ANYWHERE IN AUSTRALIA (0800 764 766 FROM NEW ZEALAND)



SAFETY DATA SHEET

A NEW FORCE IN CHEMICAL MANUFACTURING

AEROSOLS | WELDING CHEMICALS | ADHESIVES & THREADLOCKERS | ANTI-SEIZE & GREASES | CLEANING CHEMICALS & SOLVENTS | ELECTRICAL & ELECTRONICS

PRODUCT NAME: GalMax™ Grey Oxide Metal Primer

Page 5 of 5

This revision issued October 2020

SECTION 6: ACCIDENTAL RELEASE MEASURES

Small Spills

Wear protective equipment to prevent skin and eye contamination. Avoid inhalation of vapours or dust. Wipe up with absorbent (clean rag or paper towels). Collect and seal in properly labelled containers or drums for disposal.

Large Spills

If safe to do so, shut off all possible sources of ignition. Clear area of all unprotected personnel. Slippery when spilt. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contamination and the inhalation of vapours. Work up wind or increase ventilation. Contain - prevent run off into drains and waterways. Use absorbent (soil, sand or other inert material). Use a spark-free shovel. Collect and seal in properly labelled containers or drums for disposal. If contamination of crops, sewers or waterways has occurred advise local emergency services. It is advisable to have a relevant spill kit on hand.

Dangerous Goods Initial Emergency Response Guide

No. 16 (Toluene)

SECTION 7: HANDLING AND STORAGE

Handling Storage

Avoid eye contact and skin contact. Avoid inhalation of vapour and mist. Store in a cool, dry, well-ventilated place and out of direct sunlight. Store away from foodstuffs. Store away from incompatible materials described in Section 10. Store away from sources of heat and/or ignition. Store locked up. Keep containers standing upright. Keep containers closed when not in use. Check regularly for leaks.

This material is a Poison Schedule 5 and must be stored, maintained, and used in accordance with the relevant regulations.

DANGEROUS GOODS CLASSIFICATION

Dangerous Goods Class	Packing Group	UN Number	Hazchem Code	Poison Schedule (SUSMP)
3	II	1263	3YE	S5

Classified as Dangerous Goods by the criteria of the Australian Code for the Transport of Dangerous Goods by Road & Rail and the New Zealand NZS5433: Transport of Dangerous Goods on Land



POISONS INFORMATION CENTER: 13 1126 FROM ANYWHERE IN AUSTRALIA (0800 764 766 FROM NEW ZEALAND)



SAFETY DATA SHEET

A NEW FORCE IN CHEMICAL MANUFACTURING

AEROSOLS | WELDING CHEMICALS | ADHESIVES & THREADLOCKERS | ANTI-SEIZE & GREASES | CLEANING CHEMICALS & SOLVENTS | ELECTRICAL & ELECTRONICS

PRODUCT NAME: GalMax™ Grey Oxide Metal Primer

Page 6 of 6

This revision issued October 2020

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

NATIONAL OCCUPATIONAL EXPOSURE LIMITS

Chemical Entity	TWA (ppm)	TWA (mg/m ³)	STEL (ppm)	STEL (mg/m ³)	Notices
Toluene	50	191	150	574	SK
Isoheptanes	400	1640	500	2050	-
Xylene	80	350	150	655	-
Ethanol	1000	1880	N av	N av	-
1-Methoxy-2-propanol acetate	50	274	100	548	SK

As published by Safe Work Australia.

TWA: The time-weighted average airborne concentration over an eight-hour working day, for a five-day working week over an entire working life.

STEL (Short Term Exposure Limit): The average airborne concentration over a 15-minute period which should not be exceeded at any time during a normal eight-hour workday.

SK Notice: Absorption through the skin may be a significant source of exposure. The exposure standard is invalidated if such contact should occur.

These Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept too as low a level as is workable. These exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

If the directions for use on the product label are followed, exposure of individuals using the product should not exceed the above standard. The standard was created for workers who are routinely, potentially exposed during product manufacture.

Biological Limit Values

As per the national Model regulations for the control of Workplace Hazardous Substances (Safe Work Australia) the ingredients in this material do not have a Biological Limit Allocated.

Engineering Measures

Ensure ventilation is adequate to maintain air concentrations below Exposure Standards. Use only in well ventilated areas. Use with local exhaust ventilation or while wearing appropriate respirator. Vapour heavier than air - prevent concentration in hollows or sumps. Do NOT enter confined spaces where vapour may have collected.

Personal Protection Equipment

SAFETY SHOES, OVERALLS, GLOVES, CHEMICAL GOGGLES, RESPIRATOR.

Wear safety shoes, overalls, gloves, chemical goggles and respirator. Use with adequate ventilation. If inhalation risk exists wear organic vapour/particulate respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716. Available information suggests that gloves made from nitrile rubber should be suitable for

POISONS INFORMATION CENTER: 13 1126 FROM ANYWHERE IN AUSTRALIA (0800 764 766 FROM NEW ZEALAND)



SAFETY DATA SHEET

A NEW FORCE IN CHEMICAL MANUFACTURING

AEROSOLS | WELDING CHEMICALS | ADHESIVES & THREADLOCKERS | ANTI-SEIZE & GREASES | CLEANING CHEMICALS & SOLVENTS | ELECTRICAL & ELECTRONICS

PRODUCT NAME: GalMax™ Grey Oxide Metal Primer

Page 7 of 7

This revision issued October 2020

Hygiene Measures

intermittent contact. However, due to variations in glove construction and local conditions, the user should make a final assessment. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

Keep away from food, drink and animal feeding stuffs. When using, do not eat, drink or smoke. Wash hands prior to eating, drinking or smoking. Avoid contact with clothing. Avoid eye contact and skin contact. Avoid inhalation of vapour, mist or aerosols. Ensure that eyewash stations and safety showers are close to the workstation location.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Form	Liquid
Colour	Grey
Odour	Aromatic
Solubility	Insoluble in water
Specific Gravity (20°C)	1.1
Relative Vapour Density (air = 1)	1 – 3.1 Based on highest and lowest ingredient
Vapour Pressure (20°C)	Not Available
Flash Point (°C)	Not Available (4°C Toluene) (23 – 27°C Xylene)
Flammability Limits (%)	Not Available
Auto Ignition Temperature (°C)	Not Available (280-536°C (ASTM E-659) based on highest & lowest major ingredient)
Melting Point/Range (°C)	Not Available
Boiling Point/Range (°C)	Not Available (56–110°C Based on highest & lowest ingredient)
pH	Not Applicable
Viscosity	Not Available
Total VOC (g/Litre)	Not Available

(Typical values only. Consult specification sheet)

SECTION 10: STABILITY AND REACTIVITY

Chemical Stability	This material is thermally stable when stored and used as directed.
Conditions to Avoid	Elevated temperatures and sources of ignition.
Incompatible Materials	Incompatible with Oxidising Agents, Natural Rubber, Butyl Rubber, EPDM, Nitrile Rubbers and Polystyrene.
Hazardous Decomposition Products	Oxides of Carbon and Nitrogen, smoke and other toxic fumes.
Hazardous Reactions	No known hazardous reactions.

POISONS INFORMATION CENTER: 13 1126 FROM ANYWHERE IN AUSTRALIA (0800 764 766 FROM NEW ZEALAND)



SAFETY DATA SHEET

A NEW FORCE IN CHEMICAL MANUFACTURING

AEROSOLS | WELDING CHEMICALS | ADHESIVES & THREADLOCKERS | ANTI-SEIZE & GREASES | CLEANING CHEMICALS & SOLVENTS | ELECTRICAL & ELECTRONICS

PRODUCT NAME: GalMax™ Grey Oxide Metal Primer

Page 8 of 8

This revision issued October 2020

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION

ISOHEPTANES: LD50 Oral (rat) > 2000mg/kg.

XYLENE: Oral LD50: Rat: 4300 mg/kg. Dermal TClO: Rat (Inhal) LC50: 5000ppm/4hr.

PGMA: Oral LD50: Oral: 8532 mg/kg (rat); Dermal: > 5000 mg/kg (rabbit). Dermal TClO: LC50: 23.49 mg/m3/ 6hr (rat): no signs of toxicity were seen during exposure or upon gross pathological examination.

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and over-exposure occurs are:

ACUTE EFFECTS

Inhalation	Material may be an irritant to mucous membranes and respiratory tract. Inhalation of vapour can result in Narcotic effects, headaches, dizziness/drowsiness, nausea, and possible unconsciousness. Inhalation of high concentrations can produce central nervous system depression.
Skin Contact	Harmful in contact with skin. Can be absorbed through the skin with resultant toxic effects. Contact with skin will result in defatting, reddening, irritation, the constant defatting of the skin may cause dermatitis. AUH 066 Repeated exposure may cause skin dryness or cracking. Open cuts abraded or irritated skin should not be exposed to this material.
Ingestion	Swallowing can result in irritation of the mouth, throat and gastrointestinal tract, nausea, vomiting, diarrhoea, and abdominal pain. May cause lung damage if swallowed. Small amounts of liquid aspirated into the respiratory system during ingestion or vomiting may cause bronchopneumonia or pulmonary oedema. If symptoms of poisoning become evident, or you feel unwell contact a Poisons Information Centre, or call a doctor at once.
Eye Contact	Will irritate the eyes. Symptoms may include stinging, reddening and watering which may become copious. Lengthy exposure or delayed treatment may cause permanent damage.

ACUTE TOXICITY

Inhalation	This material has been classified as a Category 4 Hazard. Acute toxicity estimate (based on ingredients): 10 - 20 mg/L.
Skin Contact	This material has been classified as a Category 2 Hazard. Acute toxicity estimate (based on ingredients): 1,000 - 2,000 mg/Kg.
Ingestion	This material has been classified as non-hazardous. Acute toxicity estimate (based on ingredients): >2,000 mg/Kg.
Corrosion/Irritancy	Eye: this material has been classified as nonhazardous. Skin: this material has been classified as a Category 2 Hazard (reversible effects to skin).

POISONS INFORMATION CENTER: 13 1126 FROM ANYWHERE IN AUSTRALIA (0800 764 766 FROM NEW ZEALAND)



SAFETY DATA SHEET

A NEW FORCE IN CHEMICAL MANUFACTURING

AEROSOLS | WELDING CHEMICALS | ADHESIVES & THREADLOCKERS | ANTI-SEIZE & GREASES | CLEANING CHEMICALS & SOLVENTS | ELECTRICAL & ELECTRONICS

PRODUCT NAME: GalMax™ Grey Oxide Metal Primer

Page 9 of 9

This revision issued October 2020

Sensitisation

Inhalation: This material has been classified as not a respiratory sensitiser. May cause respiratory sensitization in sensitive individuals, producing asthma-like symptoms.

Aspiration Hazard

Skin: This material has been classified as not a skin sensitiser.

This material has been classified as an Aspiration Hazard Category 1. May be fatal if swallowed.

Specific Target Organ Toxicity (single exposure)

This material has been classified as a Category 2 Hazard. Exposure via inhalation may result in irritation to the respiratory tract, may cause harm to the unborn child and damage to kidney and liver.

CHRONIC TOXICITY

Mutagenicity Carcinogenicity

This material has been classified as non-hazardous.

This material has been classified as non-hazardous. This product may contain up to 8% of ethylbenzene. IARC has evaluated ethylbenzene and classified it as a "possible human carcinogen" (Group 2B) based on sufficient evidence for cancer in exposed humans.

Reproductive Toxicity (including via lactation)

This material has been classified as a Category 1A Hazard. May damage fertility or the unborn child. Not recommended for contact/use by pregnant or lactating mothers.

Specific Target Organ Toxicity (repeated exposure)

Inhalation: Over exposure via inhalation may result in depression of the central nervous system. May damage the Kidney and liver. There is some evidence of hearing loss in rats, solvent abuse and noise interaction in the workplace environment may cause hearing loss.

Other Health Effects Information

This material may accentuate any pre-existing skin conditions. Persons with pre-existing asthma, heart, liver, kidney, central nervous system, and skin complaints should avoid unnecessary exposure to this product. Every effort to protect eyes, respiratory tract and skin exposure should be taken – especially in these circumstances.

SECTION 12: ECOLOGICAL INFORMATION

General Information

Avoid contaminating waterways.

Do not empty into drains and collect spillage.

No information available on this material, however information from the ingredient with the highest effect.

Acute Aquatic Hazard

Toxic to aquatic life with long lasting effects. Acute toxicity estimate (based on ingredients): 1 - 10 mg/L.

Isoheptanes: Fish – Expected to be toxic: $1 < LC/EC/IC50 \leq 10\text{mg/L}$.

Aquatic invertebrate - Expected to be toxic: $1 < LC/EC/IC50 \leq 10\text{mg/L}$.

Algae - Expected to be toxic: $1 < LC/EC/IC50 \leq 10\text{mg/L}$.

Microorganisms - Expected to be toxic: $1 < LC/EC/IC50 \leq 10\text{mg/L}$.

POISONS INFORMATION CENTER: 13 1126 FROM ANYWHERE IN AUSTRALIA (0800 764 766 FROM NEW ZEALAND)



SAFETY DATA SHEET

A NEW FORCE IN CHEMICAL MANUFACTURING

AEROSOLS | WELDING CHEMICALS | ADHESIVES & THREADLOCKERS | ANTI-SEIZE & GREASES | CLEANING CHEMICALS & SOLVENTS | ELECTRICAL & ELECTRONICS

ISSUED OCTOBER 2020 (VALID 5 YEARS FROM THE DATE OF ISSUE)

Long-Term Aquatic Hazard	This material has been classified as a Category Chronic 2 Hazard. Non-rapidly or rapidly degradable substance for which there are adequate chronic toxicity data available OR in the absence of chronic toxicity data, Acute toxicity estimate (based on ingredients): 1 - 10 mg/L.
Ecotoxicity	No information available.
Persistence and Degradability	No information available.
Bioaccumulation Potential	No information available.
Mobility	Some of the ingredients will float on water.

SECTION 13: DISPOSAL CONSIDERATIONS

General Information	Persons conducting disposal, recycling or reclamation activities should ensure that appropriate personal protection equipment is used, see Section 8 of this SDS. If possible, material and its container should be recycled. If material or container cannot be recycled, dispose of in accordance with local, regional, national and international Regulations.
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SECTION 14: TRANSPORT INFORMATION

ROAD AND RAIL TRANSPORT

Classified as Dangerous Goods by the criteria of the Australian Code for the Transport of dangerous Goods by Road & Rail and the New Zealand NZS5433: Transport of Dangerous of Goods on Land.

UN No.	1263
Dangerous Goods Class	3
Packing Group	II
Hazchem Code	3YE
Emergency Response Guide No.	16
Proper Shipping Name	PAINTS (XYLENE, TOLUENE, ISOHEXANE)
Dangerous Goods Diamond	

Segregation Dangerous Goods	Not to be loaded with explosives (Class 1), flammable gasses (Class 2.1), if both are in bulk, toxic gases (Class 2.3), spontaneously combustible substances (Class 4.2), oxidising agents (Class 5.1), organic peroxides (Class 5.2), toxic substances (Class 6.1) infectious substances (Class 6.2) or radioactive substances (Class 7). Exemptions may apply.
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CHEMTOOLS
WELDING TECHNOLOGY
SUPPLIERS OF WELDING AND ENGINEERING EQUIPMENT

POISONS INFORMATION CENTER: 13 1126 FROM ANYWHERE IN AUSTRALIA (0800 764 766 FROM NEW ZEALAND)



SAFETY DATA SHEET

A NEW FORCE IN CHEMICAL MANUFACTURING

AEROSOLS | WELDING CHEMICALS | ADHESIVES & THREADLOCKERS | ANTI-SEIZE & GREASES | CLEANING CHEMICALS & SOLVENTS | ELECTRICAL & ELECTRONICS

PRODUCT NAME: GalMax™ Grey Oxide Metal Primer

Page 11 of 11

This revision issued October 2020

MARINE TRANSPORT

Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

UN No.	1263
Dangerous Goods Class	3
Packing Group	II
Proper Shipping Name	PAINTS (XYLENE, TOLUENE, ISOHEXANE)
Dangerous Goods Diamond	



AIR TRANSPORT

Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

UN No.	1263
Dangerous Goods Class	3
Packing Group	II
Proper Shipping Name	PAINTS (XYLENE, TOLUENE, ISOHEXANE)
Dangerous Goods Diamond	



SECTION 15: REGULATORY INFORMATION

<p>HSNO Group Standard</p> <p>This material is not subject to the following international agreements:</p> <p>This material is subject to the following international agreements:</p> <p>This material/constituent(s) is covered by the following requirements:</p>	<p>Surface Coatings and Colourants (Flammable) Group Standard 2006: HSR002662.</p> <p>Montreal Protocol (Ozone depleting substances)</p> <p>The Stockholm Convention (Persistent Organic Pollutants)</p> <p>The Rotterdam Convention (Prior Informed Consent)</p> <p>International Convention for the Prevention of Pollution from Ships (MARPOL)</p> <p>Basel Convention (Hazardous Waste)</p> <p>Wastes from production, formulation and use of inks, dyes, pigments, paints, lacquers, varnish</p> <p>The Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) established under the Therapeutic Goods Act (Commonwealth).</p> <p>All the constituents of this material are listed on the Australian Inventory of Chemical Substances (AICS).</p>
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WELDING TECHNOLOGY
SUPPLIERS OF WELDING AND ENGINEERING EQUIPMENT

POISONS INFORMATION CENTER: 13 1126 FROM ANYWHERE IN AUSTRALIA (0800 764 766 FROM NEW ZEALAND)



SAFETY DATA SHEET

A NEW FORCE IN CHEMICAL MANUFACTURING

AEROSOLS | WELDING CHEMICALS | ADHESIVES & THREADLOCKERS | ANTI-SEIZE & GREASES | CLEANING CHEMICALS & SOLVENTS | ELECTRICAL & ELECTRONICS

PRODUCT NAME: GalMax™ Grey Oxide Metal Primer

Page 12 of 12

This revision issued October 2020

SECTION 16: OTHER INFORMATION

KEY/LEGEND

ADG Code	Australian Code for the Transport of Dangerous Goods by Road and Rail (7 th Edition)
AICS	Australian Inventory of Chemical Substances
CAS Number	Chemical Abstracts Service (Registry Number)
CO2	Carbon Dioxide
Hazchem Code	Emergency action code of numbers and letters that provide information to emergency services, especially firefighters.
IARC	International Agency for Research on Cancer
KG	Kilograms
LC50	LC stands for Lethal Concentration
LD50	LD stands for Lethal Dose
LT	Litres
N.O.S.	Not Otherwise Specified
NTP	National Toxicology Program (USA)
ppm	Parts per Million
STEL	Short Term Exposure Limit
SUSMP	Standard for the Uniform Scheduling of Medicines & Poisons
SWA	Safe Work Australia, formerly ASCC and NOHSC
TLV	Threshold Limit Value
TWA	Time Weighted Average
UN Number	United Nations Number

This SDS is prepared in accordance with the Safe Work Australia (SWA) document, entitled: **Preparation of Safety Data Sheets for Hazardous Chemicals - Code of Practice (February 2016)**.

This Safety Data Sheet (SDS) summarises our best knowledge of the Health and Safety Hazard information pertaining to this product, including how to safely handle and use the product in the workplace.

Each user must review this SDS in the context of the how the product will be handled and used. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact **Chemtools Pty Ltd**, whereby we will attempt to obtain additional information from our suppliers.

Our responsibility for products sold is subject to our Terms and Conditions, a copy of which is sent to our customers and is also available upon request.

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CHEMTOOLS
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