



Reviewed on 28/03/2022

## Safety Data Sheet

### 1 IDENTIFICATION

#### Product identifier

**Trade name (As Labelled):** E70S-2, E70S-2, E70S-2, and ER80S-D2

**Other means of identification:** Mild Steel ER

**SDS #** 0075

#### Recommended use and restriction on use

**Recommended use:** Metal Welding

**Restrictions on use:** No further relevant information available.

#### Manufacturer/Importer/Supplier/Distributor information

##### Importer:

NEW ZEALAND

Harris Products Group

Unit 16, 232 Ellis St

Frankton, Hamilton

New Zealand 3204

(06) 83405875

**Safety Data Sheet Questions:** [sales@harrisnz.com](mailto:sales@harrisnz.com)

**Website:** <http://www.harrisproductsgroup.co.nz>

**New Zealand National Poisons Centre/ Helpline (24 hours) 0800 POISON (0800 764 766)**

**Fire Service - Ambulance – 111**

AUSTRALIA

Harris Products Group

14 Queensland Rd

Darra, QLD, Australia 4076

(07) 33753670

**Safety Data Sheet Questions:** [sales@hgea.com.au](mailto:sales@hgea.com.au)

**Website:** <http://www.harrisproductsgroup.com.au>

### 2 HAZARD(S) IDENTIFICATION

#### GHS classification of the substance/mixture.

Classified according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia.

#### Classification of the substance or mixture

**EMERGENCY OVERVIEW:** Solid metallic products are generally classified as “articles” and do not constitute a hazardous material in solid form under the definitions of the GHS. Any articles manufactured from these solid products would be generally classified as non-hazardous. However, some hazardous elements contained in these products can be emitted under certain processing conditions such as but not limited to: burning, melting, cutting, sawing, brazing, grinding, machining, milling, and welding. Products in the solid state present no fire or explosion hazard. Small chips, fines, and dust may ignite readily, though. The following classification information is for the hazardous elements which may be released during processing.

#### GHS Classification(s)

STOT SE – 3, H336 and H335

STOT RE– 1, H372

**Label elements****Signal word****Danger****Hazard Statements:****H335** - May cause respiratory irritation**H336** – May cause drowsiness or dizziness**H372** - Causes damage to organs through prolonged or repeated exposure**Precautionary Statements:****P260** - Do not breathe dust/fume/gas/mist/vapours/spray **P261** - Avoid breathing dust/fume/gas/mist/vapours/spray**P261** – Avoid breathing dust/fume/gas/mist/vapours/spray**P264** - Wash thoroughly after handling**P270** - Do not eat, drink or smoke when using this product**P271** – Use only outdoors or in a well ventilated area**P304+P340** - IF INHALED: Remove person to fresh air and keep comfortable for breathing**P312** – Call a POISON CENTRE or doctor if you feel unwell**P314** – Get medical advice and attention if you feel unwell**Storage Statement(s):****P403+P233** – Store in a well ventilated place. Keep container tightly closed**P405** - Store locked up**Disposal Statement(s):****P501** - Dispose of contents/container in accordance with regulations**Unknown Acute Toxicity** Not data available**Other Hazards** No information provided**3 Composition/information on ingredients****Chemical characterization: Mixtures****Description:** Mixture: consisting of the following components.

<b>Substances/Mixtures</b>		
<b>CAS #</b>	<b>Ingredient</b>	<b>As Below</b>
7439-89-6	Iron = Fe	
7429-90-5	Aluminium = Al	
7782-42-5	Graphite (Synthetic) = C	
7440-50-8	Copper = Cu	
7439-96-5	Manganese = Mn	
7723-14-0	Phosphorous = P	
7440-34-9	Sulphur = S	
7439-98-7	Molybdenum = Mo	
7440-21-3	Silicon = Si	
7440-32-6	Titanium = Ti	
7440-67-7	Zirconium = Zr	

Class	C	Mn	Si	P	S	Cu (d)	Mo	Fe
ER70S-2 (a)	0.07	0.90-1.40	0.40-0.70	0.025	0.035	0.50	(e)	Balance
ER70S-3	0.06-0.15	0.90-1.40	0.45-0.75	0.025	0.035	0.50	(e)	Balance
ER70S-6	0.06-0.15	1.40-1.85	0.80-1.15	0.025	0.035	0.50	(e)	Balance
ER80S-D2(c)	0.07-0.12	1.60-2.10	0.50-0.80	0.025	0.025	0.50	0.40-0.60	Balance

**Additional information:**

For the listed ingredient(s), the identity and exact percentage(s) are being withheld as a trade secret.

**SYMPTOMS OF OVER-EXPOSURE BY ROUTE OF EXPOSURE:** These products consist of solid wire or rods, which are odourless and may be copper coated. There are no immediate health hazards associated with the wire or rod form of this product. These products are not reactive. If involved in a fire, these products may generate irritating iron fumes and a variety of metal oxides. Emergency responders must wear personal protective equipment suitable for the situation to which they are responding.

**INHALATION:** Inhalation is not anticipated to be a significant route of over-exposure to the wire or rods. Inhalation of large amounts of particulates generated by these products during metal processing operations may result in pneumoconiosis (a disease of the lungs). Repeated over-exposures, via inhalation, to the dusts or fumes generated by these products may have adverse effects on the lungs with possible pulmonary edema and emphysema (life threatening lung injuries). Refer to Section 10 (Stability and Reactivity) for information on the specific composition of welding fumes and gases.

**CONTACT WITH SKIN or EYES:** Contact of the wire or rod form of these products with the skin is not anticipated to be irritating. Contact with the wire or rod form of these products can be physically damaging to the eye. Fumes generated during welding operations can be irritating to the skin and eyes. Symptoms of skin over-exposure may include irritation and redness; prolonged or repeated skin over-exposures may lead to dermatitis. Contact with the molten wire or rods will burn contaminated skin or eyes.

**SKIN ABSORPTION:** Skin absorption is not known to be a significant route of over-exposure for any component of these products.

**INGESTION:** Ingestion is not anticipated to be a route of occupational exposure for these products.

**INJECTION:** Though not a likely route of occupational exposure for these products, injection (via punctures or lacerations in the skin) may cause local reddening, tissue swelling, and discomfort.

**HEALTH EFFECTS OR RISKS FROM EXPOSURE:** An Explanation in Lay Terms. Symptoms associated with over-exposure to these products and the fumes generated during welding operations are as follows:

**ACUTE:** The chief acute health hazard associated with these products would be the potential for irritation of contaminated skin and eyes when exposed to fumes during welding operations. Inhalation of large amounts of particulates generated by these products during metal processing operations can result in pneumoconiosis (a disease of the lungs). Contact with the molten material will burn contaminated skin or eyes.

**CHRONIC:** Chronic skin over-exposure to the fumes of these products during welding operations may produce dermatitis (red, inflamed skin). Repeated over-exposures to the fumes generated by these products via inhalation can have adverse effects on the lungs (e.g., pulmonary edema and emphysema). Repeated or prolonged ingestion exposures to > 50-100 mg of Iron per day can result in deposition of iron in the body tissues, which can cause disease.

**Composition comments:**

The term "Dangerous Components" should be interpreted as a term defined in Hazard Communication standards and does not necessarily imply the existence of a hazard. The product may contain additional nonhazardous ingredients or may form additional compounds under the condition of use. Refer to Sections 2 and 8 for more information.

**First-aid measures**

**EMERGENCY OVERVIEW:** These products consist of solid wire or rods, which are odourless and may be copper coated. There are no immediate health hazards associated with the wire or rod form of this product. These products are not reactive. If involved in a fire, these products may generate irritating iron fumes and a variety of metal oxides. Emergency responders must wear personal protective equipment suitable for the situation to which they are responding.

**Description of first aid measures**

Victims of chemical exposure must be taken for medical attention. Rescuers should be taken for medical attention, if necessary. Take a copy of label and SDS to health professional with victim.

**SKIN EXPOSURE:** If fumes generated by welding operations involving these products contaminate the skin, begin decontamination with running water. If molten material contaminates the skin, immediately begin decontamination with cold, running water. Minimum flushing is for 15 minutes. Victim must seek medical attention if any adverse reaction occurs.

**EYE EXPOSURE:** If fumes generated by welding operations involving these products enter the eyes, open victim's eyes while under gently running water. Use sufficient force to open eyelids. Have victim "roll" eyes. Minimum flushing is for 15 minutes. Victim must seek immediate medical attention.

**INHALATION:** If fumes generated by welding operations involving these products are inhaled, remove victim to fresh air. If necessary, use artificial respiration to support vital functions.

**INGESTION:** Ingestion is not a likely route of exposure for this product. If swallowed call physician immediately! Do not induce vomiting unless directed by medical personnel. Rinse mouth with water if person is conscious. Never give fluids or induce vomiting if person is unconscious, having convulsions, or not breathing.

**RECOMMENDATIONS TO PHYSICIANS:** Treat symptoms and eliminate overexposure.

**5 Fire-fighting measures****Extinguishing media**

Water spray, Halon, Dry Chemical, Carbon Dioxide, Foam or any ABC class.

**Special hazards arising from the substance or mixture**

None – not flammable.

**Unusual fire and explosion hazards:** When involved in a fire, these products may decompose and produce iron fumes, a variety of nickel, iron and a variety of metal compounds and metal oxides. The hot material can present a significant thermal hazard to firefighters.

**FLASH POINT, °C (method):** Not flammable.

**AUTOIGNITION TEMPERATURE, °C:** Not flammable.

**Additional information:**

Read and understand the Work Safe Australia Code of Practice on Welding Processes and "Standard for Fire Prevention During Welding, Cutting and Other Hot Work" before using this product. Section 274 of the Work Health and Safety Act (the WHS Act.)

**6 Accidental release measures****Personal precautions, protective equipment and emergency procedures**

These products are solid metal rods, with no spill or leak hazards.

**Environmental precautions:**

N/A

**Methods and material for containment and cleaning up:**

Minimize dust generation. Use appropriate Personal Protective Equipment (PPE).

**Methods for cleaning up:** Scoop up material and place in a disposal container. Provide ventilation.

**Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

**7 Handling and storage****Handling:****Precautions for safe handling**

As with all chemicals, avoid getting these products ON YOU or IN YOU. Wash hands after handling these products. Do not eat or drink while handling these products. Use ventilation and other engineering controls to minimize potential exposure to these products. See the Australian Standard - AS 1674.1 – 1997 – Reconfirmed 2016. Safety in Welding and Allied Processes Australia.

**Conditions for safe storage, including any incompatibilities****Storage:**

All employees who handle these products should be trained to handle it safely. Use in a well-ventilated location. Avoid breathing fumes of these products during welding operations. Open containers on a stable surface. Packages of these products must be properly labelled. Store packages in a cool, dry location. Storage in an atmosphere that is wet, moist, or highly humid may lead to corrosion of these products. Store away from incompatible materials (see Section 10, Stability and Reactivity).

**Specific end use(s)** No further relevant information available.

**8 Exposure controls/personal protection****Control parameters****Exposure Guidelines:**

Refer to the Safe Environments risk management document – Welding Fume -

<http://www.safeenvironments.com.au/welding-fume/> The exposure standard refers to the publication by Work Safe Australia “Workplace Exposure Standard for Airborne Contaminants” with the Date of Effect being 22 December 2011. Work Safe Australia note that “exposure standards do not represent a fine dividing line between a healthy and unhealthy work environment. Natural biological variation and the range of individual susceptibilities mean that a small number of people might experience adverse health effects below the exposure standard.

<b>Hazard Classification for Chemical Composition</b>					
CAS #	Ingredient	TWA ppm	TWA mg/m <sup>3</sup>	STEL ppm	STEL mg/m <sup>3</sup>
7439-89-6	Iron = Fe, dust and fume		5		
7429-90-5	Aluminium = Al		10 Dust 5 Fumes		
7782-42-5	Graphite (Synthetic) = C		3		
7440-50-8	Copper = Cu		1 Dust 0.2 Fumes		
7439-96-5	Manganese = Mn		1		3
7723-14-0	Phosphorous = P		0.01		
7440-34-9	Sulphur = S		NE		
7439-98-7	Molybdenum = Mo		5		
7440-21-3	Silicon = Si		10		
7440-32-6	Titanium = Ti		NE		
7440-67-7	Zirconium = Zr		5		10

Reference: ACGIH Biological Exposure Indices

Refer to Worksafe Australia for standards:

[http://www.safeworkaustralia.gov.au/sites/SWA/about/Publications/Documents/639/Workplace\\_Exposure\\_Standards\\_for\\_Airborne\\_Contaminants.pdf](http://www.safeworkaustralia.gov.au/sites/SWA/about/Publications/Documents/639/Workplace_Exposure_Standards_for_Airborne_Contaminants.pdf)

**Exposure controls****Personal protective equipment:****General protective and hygienic measures:**

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Ensure that eyewash stations and safety showers are proximal to the work-station location.

**Engineering controls:** No further relevant information available.

**Ventilation**

Avoid inhalation. Use in well ventilated areas. Where an inhalation risk exists, mechanical extraction ventilation is recommended. Maintain vapour levels below the recommended exposure standard.

**Breathing equipment:**

Where an inhalation risk exists, wear a Class P2 (Metal fume) respirator. If using product in a confined area, wear an Air-line respirator.

**Protection of hands:**

Wear welding gloves for routine industrial use.

**Eye protection:**

Wear safety glasses with side shields (or goggles). When these products are used for welding, it is recommended that safety glasses, goggles, or face-shield with filter lens of appropriate shade number (per ANSI Z49.1-1988, "Safety in Welding and Cutting") be worn.

**Body protection:** Protective work clothing**9 Physical and chemical properties****Information on basic physical and chemical properties:****General Information**

PRODUCT			
<b>Appearance - Product</b>	Wire or rods and may be coated with copper	<b>Physical State - Product</b>	Solid
<b>Odour - Product</b>	Odourless	<b>Odour Threshold</b>	Not Available
<b>Flammability</b>	Not Available	<b>Flash Point</b>	Not Available
<b>pH</b>	Not Applicable	<b>Auto Igniting</b>	Not Available
<b>Melting point/range</b>	Not Available	<b>Solubility water</b>	Insoluble
<b>Vapour Pressure, mmHg@20°C</b>	Not Applicable		
<b>Vapour Density</b>	Not applicable	<b>Density at 20°C (68°F)</b>	Not Applicable
<b>Boiling Point &amp; boiling range</b>	3000°C	<b>Evaporation Rate</b>	Not Available
<b>Freezing/Melting Point</b>	1535°C	<b>Specific Gravity (water = 1)</b>	7.86

**10 Stability and reactivity**

**Stability:** Stable.

**Decomposition Products:** Iron fumes, a variety of iron compounds, carbon dioxide, carbon monoxide, metal oxides.

**NOTE:** The composition and quality of welding fumes and gases are dependent upon the metal being welded, the process, the procedure, and the electrodes used. Other conditions that could also influence the composition and quantity of fumes and gases to which workers may be exposed include the following: any coatings on metal being welded (e.g. paint, plating, or galvanizing), the number of welders and the volume of the work area, the quality of ventilation, the position of the welder's head with respect to the fume plume, and the presence of other contaminants in the atmosphere. When the electrode is consumed, the fume and gas decomposition products generated are different in percent and form from the ingredients listed in Section 2 (Composition and Information on Ingredients). Fume and gas decomposition products, and not the ingredients in the electrode, are important. Concentration of the given fume or gas component may decrease

or increase by many times the original concentration. New compounds in the electrode may form. Decomposition products of normal operations include not only those originating from volatilization, reaction, or oxidation of the product's components but also those from base metals and any coating (as noted previously). The best method to determine the actual composition of generated fumes and gases is to take an air sample from inside the welder's helmet if worn or in breathing zone. For additional information, refer to the American Welding Society Publication, "Fumes and Gases in the Welding Environment".

**Materials with which substance is incompatible:** Strong acids, strong oxidizers, halogens, phosphorous.

**Hazardous polymerization:** Will not occur.

**Conditions to avoid:** Avoid uncontrolled exposure to extreme temperatures and incompatible materials.

## 11 Toxicological information

### Information on toxicological effects:

**Toxicity data:** Presented below are toxicological data available for the components of these products present in concentration greater than 1%.

CAS	Name	Oral Toxicity LD50	Intravenous Toxicity LD50	Inhalation Toxicity LD50
7439-89-6	Iron	30mg/kg Rat	7439-89-6	
7440-21-3	Silicon	3160 mg/kg Rat	>5000 mg/kg Rabbit	
7439-96-5	Manganese	>2000 mg/kg Rat		IRRITATION Eye (rabbit): 500 mg/24h – mild Skin (rabbit): 500 mg/24h - mild
7429-90-5	Aluminium	Not Established		
7782-42-5	Graphite (Synthetic)	Not Established		
7440-50-8	Copper	0.12mg/kg Human	3.5mg/kg Mouse	
7723-14-0	Phosphorous	4.82 mg/kg Rat		
7440-34-9	Sulphur	Not Established		
7439-98-7	Molybdenum		LDLo 70mg/kg Rabbit	
7440-32-6	Titanium	Not Established		
7440-67-7	Zirconium	Not Established		

**IRRITANCY OF PRODUCT:** Dusts or fumes of these products may be irritating to contaminated skin and eyes. Fumes may be irritating to the respiratory system.

**SENSITIZATION TO THE PRODUCT:** The components of these products are not known to be sensitizers with repeated or prolonged use.

**Mutagenicity:** These products are not reported to produce mutagenic effects in humans. Animal mutation data are available for the Calcium Fluoride, Chromium (III) Oxide, Cryolite, Molybdenum, Nickel, and Potassium Hydroxide components of these products; these data were obtained during clinical studies on specific animal tissues exposed to high doses of this compound.

**Embryo toxicity:** These products are not reported to produce embryo toxic effects in humans.

**Teratogenicity:** These products are not reported to cause teratogenic effects in humans.

**Reproductive Toxicity:** These products are not reported to cause reproductive effects in humans. Clinical studies on test animals exposed to relatively high doses of the Molybdenum components of these products indicate adverse reproductive effects.

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:** Skin, respiratory, pancreas, and liver disorders may be aggravated by prolonged over-exposures to the dusts or fumes generated by these products.

**RECOMMENDATIONS TO PHYSICIANS:** Treat symptoms and eliminate overexposure.

**BIOLOGICAL EXPOSURE INDICES:** Currently, there are no Biological Exposure Indices (BEIs) associated with components of these products.

## 12 Ecological information

**ENVIRONMENTAL STABILITY:** The components of these products occur naturally in the environment and are expected to persist in the environment for an extended period of time. Iron will react with water and air to form a variety of stable iron oxides.

CAS#	Ingredient	Result	Species	Exposure
7439-96-5	Manganese	>3.6mg/L - LC50 > 1.6mg/L – EC50	Fish Crustacea	96 Hours 48 Hours
7439-89-6	Iron	13.6 mg/L	Fish	96 Hours
7440-50-8	Copper dusts & mist	58 mg/L	Fish	96 Hours

**EFFECT OF MATERIAL ON PLANTS or ANIMALS:** The components of these products occur naturally in the environment and are essential for plant and animal life.

**EFFECT OF CHEMICAL ON AQUATIC LIFE:** These products are not expected to cause adverse effects on aquatic life.

**COPPER:** Copper is concentrated by plankton by 1000 or more. Copper may concentrate to toxic level in the food chain.

## 13 Disposal considerations

### Waste treatment methods

#### Recommendation:

Waste disposal must be in accordance with appropriate Federal, State, and local regulations. These products, if unaltered by use, may be disposed of by treatment at a permitted facility or as advised by your local hazardous waste regulatory authority.

**Uncleaned packagings:** Empty containers should be taken to an approved waste handling site for recycling or disposal.

**Recommendation:** Disposal must be made according to official regulations.

## 14 Transport Information

This product is not classed as hazardous.

UN-Number DOT, ADR, ADN, IMDG, IATA	Not Regulated
UN proper shipping name DOT, ADR, ADN, IMDG, IATA	Not Regulated
Transport hazard class(es) DOT, ADR, ADN, IMDG, IATA Class	Not Regulated
Packing group DOT, ADR, IMDG, IATA	Not Regulated
Environmental hazards: Marine pollutant:	No
Special precautions for user	Not applicable.
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
UN "Model Regulation":	Not regulated.



## 15 Regulatory information

**Product Name:** E70S-2, E70S-2, E70S-2, and ER80S-D2

**Safety, health and environmental regulations/legislation specific for the substance or mixture:**

**Poison Schedule:**

Classified as a Schedule 6 (S6) Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).

**Classifications:**

Safework Australia criteria is based on the Globally Harmonised System (GHS) of Classification and Labelling of Chemicals.

The classifications and phrases listed below are based on the Approved Criteria for Classifying Hazardous Substances [NOHSC: 1008(2004)].

Refer to the Australian Inventory of Chemical Substances – AICS at <https://www.nicnas.gov.au/chemicals-on-AICS#main>

**Poison schedule:** Classified as a Schedule 6 (S6) Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP). <https://www.legislation.gov.au/Details/F2016L01638>

**Classifications:** Safework Australia criteria is based on the Globally Harmonised System (GHS) of Classification and Labelling of Chemicals.

The classifications and phrases listed below are based on the Approved Criteria for Classifying Hazardous Substances [NOHSC: 1008(2004)].

## 16 Other information

### References

Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice

Standard for the Uniform Scheduling of Medicines and Poisons

Australian Code for the Transport of Dangerous Goods by Road & Rail.

Modell Work Health and Safety Regulations, Schedule 10: Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals.

Workplace exposure standards for airborne contaminants, Safe work, Australia

American Conference of Industrial Hygienists (ACGIH)

Globally Harmonised System of classification and labelling of chemicals.

**WELDING (1):** Due to the diversity of welding techniques, processes, materials used, nature of the surface being welded and the presence of contaminants, the fumes & gases associated with welding will vary in composition and quantity. When assessing a welding process, the toxic fumes generated may not only be associated with the parent metal, filler wire or electrode. The welding/cutting arc may generate nitrogen oxides, carbon monoxide & other gases, whilst UV radiation emitted from some arcs generates ozone. Ozone may irritate mucous membranes and cause pulmonary oedema & haemorrhage. Shielding gases (e.g. carbon dioxide and inert gases i.e. argon and helium) in high concentrations, in confined spaces, may reduce oxygen in the atmosphere to dangerous levels, resulting in possible asphyxiation.

**WELDING (2):** In addition to complying with individual exposure standards for specific contaminants, where current manual welding processes are used, the fume concentration inside the welder's helmet should not exceed 5 mg/m<sup>3</sup> ( unless otherwise classified) when collected in accordance with Australian Standard AS 3853.1: Fume from welding and allied processes - Guide to methods for the sampling and analysis of particulate matter and AS 3853.2: Fume from welding and allied processes - Guide to methods for the sampling and analysis of gases. Airway irritation and metal fume fever are the most common acute effects from welding fumes. Reported to cause reduced sperm quality in welders.

**WELDING (3):** Other gases and fumes associated with welding processes include: Inert shielding gases (e.g. argon, carbon dioxide, helium) which may reduce the atmospheric oxygen content in poorly ventilated areas. UV-radiation and Infra-Red radiation may decompose chlorinated degreasing agents to form highly toxic and irritating phosgene gas. This may occur if a metal has been degreased but inadequately dried or when vapours from a nearby degreasing bath enter the welding zone.

**WELDING (4):** Welding fumes may contain a wide variety of chemical contaminants, including oxides and salts of metals and other compounds which may be generated from electrodes, filler wire, flux materials and from the welded material (e.g. painted surfaces). Welding stainless-steel and its alloys generates nickel and chromium (VI) compounds. Welding fumes are retained in the lungs. Sparingly soluble compounds may be released slowly from the lungs. Welding fume is classified as possibly carcinogenic to humans (IARC Group 2B).

#### **PERSONAL PROTECTIVE EQUIPMENT GUIDELINES:**

The recommendation for protective equipment contained within this report is provided as a guide only. Factors such as method of application, working environment, quantity used, product concentration and the availability of engineering controls should be considered before final selection of personal protective equipment is made.

#### **Disclaimer:**

We urge each end user and recipient of this SDS to study it carefully. If necessary, consult an industrial hygienist or other expert to understand this information and safeguard the environment and protect workers from potential hazards associated with the handling or use of this product. Harris Products Group cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for use, handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.

#### **WARNING: PRODUCT COMPONENTS PRESENT HEALTH AND SAFETY HAZARDS. READ AND UNDERSTAND THIS MATERIAL SAFETY DATA SHEET (M.S.DS.). ALSO, FOLLOW YOUR EMPLOYER'S SAFETY PRACTICES.**

The information contained herein relates only to the specific product. If the product is combined with other materials, all component properties must be considered. **BE SURE TO CONSULT THE LATEST VERSION OF THE MSDS. MATERIAL SAFETY DATA SHEETS ARE AVAILABLE FROM HARRIS PRODUCTS GROUP** Harris Products Group, HGE PTY LTD, Brisbane | Melbourne | Perth | New Zealand, 14 Queensland Rd, Darra, QLD 4076, Phone: (07) 3375 3670 | Fax: (07) 3375 3620, Email: sales@hgea.com.au, www.harrisproductsgroup.com.au,

#### **STATEMENT OF LIABILITY-DISCLAIMER**

To the best of the Harris Products Group knowledge, the information and recommendations contained in this publication are reliable and accurate as of the date prepared. However, accuracy, suitability, or completeness are not guaranteed, and no warranty, guarantee, or representation, expressed or implied, is made by Harris Products Group. as to the absolute correctness or sufficiency of any representation contained in this and other publications; Harris Products Group assumes no responsibility in connection therewith; nor can it be assumed that all acceptable safety measures are contained in this and other publications, or that other or additional measures may not be required under particular or exceptional conditions or circumstances. Data may be changed from time to time.

[ End of SDS ]