LOCTITE C 400 60EN 5C 0.7MM S known as 60EN CRYSTAL 400 5C #229-4263 #229-4279 #229-4285 (NZ)

RS Components

Chemwatch: 5415-79 Version No: 2.1

Safety Data Sheet according to the Health and Safety at Work (Hazardous Substances) Regulations 2017

Chemwatch Hazard Alert Code: 4

Issue Date: **15/07/2020** Print Date: **19/09/2022** L.GHS.NZL.EN.E

SECTION 1 Identification of the substance / mixture and of the company / undertaking

Product Identifier		
Product name	LOCTITE C 400 60EN 5C 0.7MM S known as 60EN CRYSTAL 400 5C #229-4263 #229-4279 #229-4285 (NZ)	
Chemical Name	Not Applicable	
Synonyms	Product Code: 229-4263; 229-4279; 229-4285	
Chemical formula	Not Applicable	
Other means of identification	Not Available	

Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses	Flux-cored solder wire.
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Details of the manufacturer or supplier of the safety data sheet

Registered company name	RS Components
Address	PO Box 12-127 Penrose, Auckland New Zealand
Telephone	+64 27 4747122
Fax	+64 9 579 1700
Website	www.nz.rs-online.com
Email	Not Available

Emergency telephone number

Association / Organisation	CHEMWATCH EMERGENCY RESPONSE
Emergency telephone numbers	+64 800 700 112
Other emergency telephone numbers	+61 3 9573 3188

Once connected and if the message is not in your preferred language then please dial 01

SECTION 2 Hazards identification

Classification of the substance or mixture

Considered a Hazardous Substance according to the criteria of the New Zealand Hazardous Substances New Organisms legislation. Not regulated for transport of Dangerous Goods.

ChemWatch Hazard Ratings

Chemitaten nazara natingo			
	Min	Max	
Flammability	0		
Toxicity	2		0 = Minimum
Body Contact	1	1	1 = Low
Reactivity	0		2 = Moderate
Chronic	4		3 = High 4 = Extreme

Classification ^[1]	Carcinogenicity Category 1, Reproductive Toxicity Category 1, Reproductive Toxicity Effects on or via Lactation, Specific Target Organ Toxicity - Repeated Exposure Category 1, Acute Toxicity (Inhalation) Category 4
Legend:	1. Classified by Chemwatch; 2. Classification drawn from CCID EPA NZ; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI
Determined by Chemwatch using GHS/HSNO criteria	6.1D (inhalation), 6.7A, 6.8A, 6.8C, 6.9A

Label elements

Hazard pictogram(s)



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Signal word Danger

Hazard statement(s)		
H350	May cause cancer.	
H360	May damage fertility or the unborn child.	
H362	May cause harm to breast-fed children.	
H372	Causes damage to organs through prolonged or repeated exposure.	
H332	Harmful if inhaled.	

Precautionary statement(s) Prevention

P201	Obtain special instructions before use.
P260	Do not breathe dust/fume.
P263	Avoid contact during pregnancy and while nursing.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves and protective clothing.
P270	Do not eat, drink or smoke when using this product.
P264	Wash all exposed external body areas thoroughly after handling.

Precautionary statement(s) Response

P308+P313 IF exposed or concerned: Get medical advice/ attention.	
P312	Call a POISON CENTER/doctor/physician/first aider/if you feel unwell.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Precautionary statement(s) Storage

P405 Store locked up.

Precautionary statement(s) Disposal

Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation.

SECTION 3 Composition / information on ingredients

P501

Substances

See section below for composition of Mixtures

Mixtures

CAS No	%[weight]	Name
Not Available	soldering wire consisting of	
Not Available	NotSpec	modified rosin, proprietary
Not Available	>60	welding fumes
Not Available		In use product produces soldering volaties as
Not Available		rosin core solder decomposition products
7440-31-5	NotSpec	<u>tin fume</u>
7439-92-1.	NotSpec	lead fumes
Legend:	Legend: 1. Classified by Chemwatch; 2. Classification drawn from CCID EPA NZ; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI; 4. Classification drawn from C&L * EU IOELVs available	

SECTION 4 First aid measures

Description of first aid measures

Description of first all measures		
Eye Contact	 Particulate bodies from welding spatter may be removed carefully. DO NOT attempt to remove particles attached to or embedded in eye. Lay victim down, on stretcher if available and pad BOTH eyes, make sure dressing does not press on the injured eye by placing thick pads under dressing, above and below the eye. Seek urgent medical assistance, or transport to hospital. For "arc eye", i.e. welding flash or UV light burns to the eye: Place eye pads or light clean dressings over both eyes. Seek medical assistance. For THERMAL burns: Do NOT remove contact lens Lay victim down, on stretcher if available and pad BOTH eyes, make sure dressing does not press on the injured eye by placing thick pads under dressing, above and below the eye. Seek urgent medical assistance, or transport to hospital. 	
Skin Contact	 If skin or hair contact occurs: Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation. For thermal burns: Decontaminate area around burn. Consider the use of cold packs and topical antibiotics. 	

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	 For first-degree burns (affecting top layer of skin) Hold burned skin under cool (not cold) running water or immerse in cool water until pain subsides. Use compresses if running water is not available. Cover with sterile non-adhesive bandage or clean cloth. Do NOT apply butter or ointments; this may cause infection. Give over-the counter pain relievers if pain increases or swelling, redness, fever occur. For second-degree burns (affecting top two layers of skin) Cool the burn by immerse in cold running water for 10-15 minutes. Use compresses if running water is not available. Do NOT apply loce as this may lower body temperature and cause further damage. Do NOT apply butter or ointments; this may cause infection. Protect burn by cover loosely with sterile, nonstick bandage and secure in place with gauze or tape. To prevent shock: (unless the person has a head, neck, or leg injury, or it would cause discomfort): Lay the person flat. Elevate feet about 12 inches. Elevate feet about 12 inches. Seek immediate medical or emergency assistance. In the mean time: Protect burn area acove heart level, if possible. Cover the person with coat or blanket. Separate burns area cover loosely with sterile, nonstick bandage or, for large areas, a sheet or other material that will not leave lint in wound. Separate burn area cover loosely with sterile, nonstick bandage or, for large areas, a sheet or other material that will not leave lint in wound. Separate burn area cover loosely with sterile nonstick bandage or, for large areas, a sheet or other material that will not leave lint in wound. Separate burn water or apply ointenns or butter; this may cause infection. To prevent shock see above. For an airway burn, do not place pillow under the person's head when the person is lying down. This can close t
Inhalation	 If fumes or combustion products are inhaled remove from contaminated area. Lay patient down. Keep warm and rested. Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures. Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary. Transport to hospital, or doctor.
Ingestion	 If swallowed do NOT induce vomiting. If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration. Observe the patient carefully. Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious. Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink. Seek medical advice.

Indication of any immediate medical attention and special treatment needed

Copper, magnesium, aluminium, antimony, iron, manganese, nickel, zinc (and their compounds) in welding, brazing, galvanising or smelting operations all give rise to thermally produced particulates of smaller dimension than may be produced if the metals are divided mechanically. Where insufficient ventilation or respiratory protection is available these particulates may produce "metal fume fever" in workers from an acute or long term exposure.

- Onset occurs in 4-6 hours generally on the evening following exposure. Tolerance develops in workers but may be lost over the weekend. (Monday Morning Fever)
 Pulmonary function tests may indicate reduced lung volumes, small airway obstruction and decreased carbon monoxide diffusing capacity but these abnormalities resolve after several months.
- Although mildly elevated urinary levels of heavy metal may occur they do not correlate with clinical effects.
- The general approach to treatment is recognition of the disease, supportive care and prevention of exposure.
- Seriously symptomatic patients should receive chest x-rays, have arterial blood gases determined and be observed for the development of tracheobronchitis and pulmonary edema.

[Ellenhorn and Barceloux: Medical Toxicology]

For carbon monoxide intoxications:

- Administer pure oxygen by the best means possible. An oro-nasal mask is usually best. Artificial respiration is necessary wherever breathing is inadequate. Apnoeic patients have often been saved by persistent and efficient artificial ventilation. A patent airway must be carefully maintained. Patients with 40% carboxyhaemoglobin or more and an uncompensated metabolic acidosis (arterial pH less than 7.4) should be managed aggressively with ventilatory support/ hyperbaric oxygenation.
- Bastric aspiration and lavage early in the course of therapy may prevent aspiration pneumonitis and reveal the presence of ingested intoxicants.
- Avoid stimulant drugs including carbon dioxide. DO NOT inject methylene blue.
- Hypothermia has been employed to reduce the patient's oxygen requirement.
- Consider antibiotics as prophylaxis against pulmonary infection.
- A whole blood transfusion may be useful if it can be given early in the treatment program.
- Infuse sodium bicarbonate and balanced electrolyte solutions if blood analyses indicate a significant metabolic acidosis.
- Ancillary therapy for brain oedema may be necessary if hypoxia has been severe.
- Ensure absolute rest in bed for at least 48 hours; in severe poisonings, 2 to 4 weeks in bed may prevent sequelae.
- Watch for late neurological, psychiatric and cardiac complications. GOSSELIN, SMITH HODGE: Clinical Toxicology of Commercial Products 5th Ed.
- BIOLOGICAL EXPOSURE INDEX (BEI)

These represent the determinants observed in specimens collected from a healthy worker exposed at the Exposure Standard (ES or TLV):

······································			
Determinant	Sampling time	Index	Comments
Carboxyhaemoglobin in blood	end of shift	3.5% of haemoglobin	B, NS
Carbon monoxide in end-exhaled air	end of shift	20 ppm	B, NS
B: Background levels occur in specimens collected from subjects NOT expos	sed		

NS: Non-specific determinant; also observed after exposure to other material

SECTION 5 Firefighting measures

Extinguishing media

- There is no restriction on the type of extinguisher which may be used.
- Use extinguishing media suitable for surrounding area.

Special hazards arising from the substrate or mixture

Fire Incompatibility

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Advice for firefighters	
Fire Fighting	 Alert Fire Brigade and tell them location and nature of hazard. Wear breathing apparatus plus protective gloves in the event of a fire. Prevent, by any means available, spillage from entering drains or water courses. Use fire fighting procedures suitable for surrounding area. DO NOT approach containers suspected to be hot. Cool fire exposed containers with water spray from a protected location. If safe to do so, remove containers from path of fire. Equipment should be thoroughly decontaminated after use. Slight hazard when exposed to heat, flame and oxidisers.
Fire/Explosion Hazard	 Non combustible. Not considered to be a significant fire risk, however containers may burn. In a fire may decompose on heating and produce toxic / corrosive fumes. May emit poisonous fumes. Articles and manufactured articles may constitute a fire hazard where polymers form their outer layers or where combustible packaging remains in place. Certain substances, found throughout their construction, may degrade or become volatile when heated to high temperatures. This may create a secondary hazard. Welding arc and metal sparks can ignite combustibles.

SECTION 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

Avoid reaction with oxidising agents

See section 8

Environmental precautions

See section 12

Methods and material for containment and cleaning up

Minor Spills	Clean up all spills immediately. Wear impervious gloves and safety glasses. Use dry clean up procedures and avoid generating dust. Place in suitable containers for disposal.
Major Spills	 Minor hazard. Clear area of personnel. Alert Fire Brigade and tell them location and nature of hazard. Control personal contact with the substance, by using protective equipment if risk of overexposure exists. Prevent, by any means available, spillage from entering drains or water courses. Contain spill/secure load if safe to do so. Bundle/collect recoverable product and label for recycling. Collect remaining product and place in appropriate containers for disposal. Clean up/sweep up area. Water may be required. If contamination of drains or waterways occurs, advise emergency services.

Personal Protective Equipment advice is contained in Section 8 of the SDS.

SECTION 7 Handling and storage

Precautions for safe handling	
Safe handling	 Avoid all personal contact, including inhalation. Wear protective clothing when risk of exposure occurs. Use in a well-ventilated area. Prevent concentration in hollows and sumps. DO NOT enter confined spaces until atmosphere has been checked. DO NOT allow material to contact humans, exposed food or food utensils. Avoid contact with incompatible materials. When handling, DO NOT eat, drink or smoke. Keep containers securely sealed when not in use. Avoid physical damage to containers. Always wash hands with soap and water after handling. Work clothes should be laundered separately. Launder contaminated clothing before re-use. Use good occupational work practice. Observe manufacturer's storage and handling recommendations contained within this SDS. Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions are maintained.
Other information	 Store in original containers. Keep containers securely sealed. Store in a cool, dry, well-ventilated area. Store away from incompatible materials and foodstuff containers. Protect containers against physical damage and check regularly for leaks. Observe manufacturer's storage and handling recommendations contained within this SDS.

Conditions for safe storage, including any incompatibilities

Suitable container	Generally packaging as originally supplied with the article or manufactured item is sufficient to protect against physical hazards. If repackaging is required ensure the article is intact and does not show signs of wear. As far as is practicably possible, reuse the original packaging or something providing a similar level of protection to both the article and the handler.
Storage incompatibility	Welding electrodes should not be allowed to come into contact with strong acids or other substances which are corrosive to metals. Avoid reaction with oxidising agents

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SECTION 8 Exposure controls / personal protection

Control parameters

Occupational Exposure Limits (OEL)

INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
New Zealand Workplace Exposure Standards (WES)	welding fumes	Welding fume (not otherwise classified)	Not Available	Not Available	Not Available	(w) - A range of airborne contaminants are associated with gas and arc welding. The type of metal being welded, the electrode employed and the welding process will all influence the composition and amount of fume. Gaseous products such as oxides of nitrogen, carbon monoxide and ozone may also be produced. Exposure assessment of welding fume should be based on measurement of known or expected components in welding fume which would include metal constituents as well as shielding gases and contaminants produced during combustion of surface coatings and cleaning products, where present; confirmed carcinogen
New Zealand Workplace Exposure Standards (WES)	tin fume	Tin, metal	2 mg/m3	Not Available	Not Available	Not Available
New Zealand Workplace Exposure Standards (WES)	lead fumes	Lead, inorganic dusts and fumes, as Pb	0.05 mg/m3	Not Available	Not Available	carcinogen category 2 - Suspected human carcinogen (bio) - Exposure can also be estimated by biological monitoring oto - Ototoxin
New Zealand Workplace Exposure Standards (WES)	lead fumes	Respirable dust (not otherwise classified)	3 mg/m3	Not Available	Not Available	Not Available
New Zealand Workplace Exposure Standards (WES)	lead fumes	Inhalable dust (not otherwise classified)	10 mg/m3	Not Available	Not Available	Not Available

Emergency Limits				
Ingredient	TEEL-1 TEEL-2			TEEL-3
tin fume	6 mg/m3	67 mg/m3		400 mg/m3
lead fumes	0.15 mg/m3	120 mg/m3		700 mg/m3
Ingredient	Original IDLH		Revised IDLH	
welding fumes	Not Available		Not Available	
rosin core solder decomposition products	Not Available		Not Available	
tin fume	Not Available		Not Available	
lead fumes	Not Available		Not Available	
Occupational Exposure Banding				
Ingredient	Occupational Exposure Band Rating		Occupational Exposure Band Limit	
rosin core solder decomposition	D		> 0.1 to < 1 ppm	

rosin core solder decomposition products	D	> 0.1 to ≤ 1 ppm
Notes:	Occupational exposure banding is a process of assigning chemicals into s adverse health outcomes associated with exposure. The output of this pro	
	range of exposure concentrations that are expected to protect worker hear	lth

MATERIAL DATA

for welding fume:

In addition to complying with any 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/m3, when collected in accordance with the appropriate standard (AS 3640, for example).

ES* TWA: 5 mg/m3

TLV* TWA: 5 mg/m3, B2 (a substance of variable composition)

OES* TWA: 5 mg/m3

Most welding, even with primitive ventilation, does not produce exposures inside the welding helmet above 5 mg/m3. That which does should be controlled (ACGIH). Inspirable dust concentrations in a worker s breathing zone shall be collected and measured in accordance with AS 3640, for example. Metal content can be analytically determined by OSHA Method ID25 (ICP-AES) after total digestion of filters and dissolution of captured metals. Sampling of the Respirable Dust fraction requires cyclone separator devices (elutriators) and procedures to comply with AS 2985 (for example).

Exposure of	controls
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Appropriate engineering controls	Articles or manufactured items, in their original condition, generally don't require engineering controls during handling or in normal use. Exceptions may arise following extensive use and subsequent wear, during recycling or disposal operations where substances, found in the article, may be released to the environment. Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection. The basic types of engineering controls are: Process controls which involve changing the way a job activity or process is done to reduce the risk. Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment. Ventilation can remove or dilute an air contaminant if designed properly. The design of a ventilation system must match the particular process and chemical or contaminant in use. Employers may need to use multiple types of controls to prevent employee overexposure. Special ventilation requirements apply for processes which result in the generation of barium, chromium, lead, or nickel fume and in those
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	processes which generate ozone. The use of mechanical ventilation by local exhaust systems is required as a minimum in all circumstances (including outdoor work). (In confined spaces always check that oxygen has not been depleted by excessive rusting of steel or snowflake corrosion of aluminium) Local exhaust systems must be designed to provide a minimum capture velocity at the fume source, away from the worker, of 0.5 metre/sec. Air contaminants generated in the workplace possess varying "escape" velocities which, in turn, determine the "capture velocities" of fresh circulating air required to effectively remove the contaminant.			
	Type of Contaminant:		Air Speed:	
	welding, brazing fumes (released at relatively low velocity i	nto moderately still air)	0.5-1.0 m/s (100-200 f/min.)	
	Within each range the appropriate value depends on:			
	Lower end of the range	Upper end of the range	e	
	1: Room air currents minimal or favourable to capture	1: Disturbing room air	currents	
	2: Contaminants of low toxicity or of nuisance value only.	2: Contaminants of hig	h toxicity	
	3: Intermittent, low production.	3: High production, hea	avy use	
	4: Large hood or large air mass in motion	4: Small hood-local co	ntrol only	
	Simple theory shows that air velocity falls rapidly with distance with the square of distance from the extraction point (in simpl accordingly, after reference to distance from the contaminatin 1-2 m/s (200-400 f/min.) for extraction of welding or brazing f considerations, producing performance deficits within the ext factors of 10 or more when extraction systems are installed or	e cases). Therefore the a g source. The air velocity umes generated 2 meters raction apparatus, make	air speed at the extraction point should be adjusted, y at the extraction fan, for example, should be a minimum of s distant from the extraction point. Other mechanical	
Personal protection				
Eye and face protection	 Goggles or other suitable eye protection shall be used during all gas welding or oxygen cutting operations. Spectacles without side shields, with suitable filter lenses are permitted for use during gas welding operations on light work, for torch brazing or for inspection. For most open welding/brazing operations, goggles, even with appropriate filters, will not afford sufficient facial protection for operators. Where possible use welding helmets or handshields corresponding to EN 175, ANSI Z49:12005, AS 1336 and AS 1338 which provide the maximum possible facial protection from flying particles and fragments. [WRIA-WTIA Technical Note 7] An approved face shield or welding helmet can also have filters for optical radiation protection, and offer additional protection against debris and sparks. UV blocking protective spectacles with side shields or welding goggles are considered primary protection, with the face shield or welding helmet considered secondary protection. The optical filter in welding goggles, face mask or helmet must be a type which is suitable for the sort of work being done. A filter suitable for gas welding, for instance, should not be used for arc welding. Face masks which are self dimming are available for arc welding, MIG, TIG and plasma cutting, and allow better vision before the arc is struck and after it is extinguished. For submerged arc welding use a lens shade which gives just sufficient arc brightness to allow weld pool control. Welding helmet with suitable filter. Welding hand shield with suitable filter. 			
Skin protection	See Hand protection below			
Hands/feet protection	 Welding gloves conforming to Standards such as EN 12477:2001, ANSI Z49.1, AS/NZS 2161:2008 produced from leather, rubber, treated cotton, or alumininised These gloves protect against mechanical risk caused by abrasion, blade cut, tear and puncture Other gloves which protect against thermal risks (heat and fire) might also be considered - these comply with different standards to those mentioned above. One pair of gloves may not be suitable for all processes. For example, gloves that are suitable for low current Gas Tungsten Arc Welding (GTAW) (thin and flexible) would not be proper for high-current Air Carbon Arc Cutting (CAC-A) (insulated, tough, and durable) Welding Gloves Safety footwear 			
Body protection	See Other protection below			
Other protection	Before starting; consider that protection should be provided fr must be adequately shielded with screens of non flammable Overalls ▶ Eyewash unit. Aprons, sleeves, shoulder covers, leggings or spats of pliable where these areas of the body will encounter hot metal.	materials. Screens should	d permit ventilation at floor and ceiling levels.	

Recommended material(s)

GLOVE SELECTION INDEX

Glove selection is based on a modified presentation of the:

"Forsberg Clothing Performance Index".

The effect(s) of the following substance(s) are taken into account in the *computer-generated* selection:

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Material	CPI
BUTYL	А
NEOPRENE	А
NEOPRENE/NATURAL	А
NITRILE	А
PE	А
PE/EVAL/PE	А

Respiratory protection

Type A-P Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

Where the concentration of gas/particulates in the breathing zone, approaches or exceeds the "Exposure Standard" (or ES), respiratory protection is required. Degree of protection varies with both face-piece and Class of filter; the nature of protection varies with Type of filter.

Required Minimum Protection Factor	Half-Face Respirator	Full-Face Respirator	Powered Air Respirator
up to 10 x ES	A-AUS P2	-	A-PAPR-AUS / Class 1 P2
up to 50 x ES	-	A-AUS / Class 1 P2	-
up to 100 x ES	-	A-2 P2	A-PAPR-2 P2 ^

^ - Full-face

A(All classes) = Organic vapours, B AUS or B1 = Acid gasses, B2 = Acid gas or

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PVC	А
TEFLON	A
VITON	A
NATURAL RUBBER	В
NATURAL+NEOPRENE	В

* CPI - Chemwatch Performance Index

A: Best Selection

B: Satisfactory; may degrade after 4 hours continuous immersion

C: Poor to Dangerous Choice for other than short term immersion

NOTE: As a series of factors will influence the actual performance of the glove, a final selection must be based on detailed observation. -

* Where the glove is to be used on a short term, casual or infrequent basis, factors such as "feel" or convenience (e.g. disposability), may dictate a choice of gloves which might otherwise be unsuitable following long-term or frequent use. A qualified practitioner should be consulted.

SECTION 9 Physical and chemical properties

Information on basic physical and chemical properties

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Appearance	Grey solid with no odour; insoluble in water.		
Physical state	Manufactured	Relative density (Water = 1)	8.5
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Applicable
pH (as supplied)	Not Applicable	Decomposition temperature (°C)	Not Available
Melting point / freezing point (°C)	183-188	Viscosity (cSt)	Not Applicable
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	Not Applicable	Taste	Not Available
Evaporation rate	Not Applicable	Explosive properties	Not Available
Flammability	Not Applicable	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Applicable	Surface Tension (dyn/cm or mN/m)	Not Applicable
Lower Explosive Limit (%)	Not Applicable	Volatile Component (%vol)	Not Applicable
Vapour pressure (kPa)	Not Applicable	Gas group	Not Available
Solubility in water	Immiscible	pH as a solution (Not Available%)	Not Applicable
Vapour density (Air = 1)	Not Applicable	VOC g/L	Not Applicable

SECTION 10 Stability and reactivity

Reactivity	See section 7
Chemical stability	 Unstable in the presence of incompatible materials. Product is considered stable. Hazardous polymerisation will not occur.
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

SECTION 11 Toxicological information

Information on toxicological effects

	Inhalation of aerosols (mists, fumes), generated by the material during the course of normal handling, may be harmful. Fumes evolved during welding operations may be irritating to the upper-respiratory tract and may be harmful if inhaled.
Inhaled	Inhalation of freshly formed metal oxide particles sized below 1.5 microns and generally between 0.02 to 0.05 microns may result in "metal fume fever". Symptoms may be delayed for up to 12 hours and begin with the sudden onset of thirst, and a sweet, metallic or foul taste in the mouth. Other symptoms include upper respiratory tract irritation accompanied by coughing and a dryness of the mucous membranes, lassitude and a generalised feeling of malaise. Mild to severe headache, nausea, occasional vomiting, fever or chills, exaggerated mental activity, profuse sweating, diarrhoea, excessive urination and prostration may also occur. Tolerance to the fumes develops rapidly, but is quickly lost. All symptoms usually subside within 24-36 hours following removal from exposure.
	Harmful levels of ozone may be found when working in confined spaces. Symptoms of exposure include irritation of the upper membranes of the respiratory tract and lungs as well as pulmonary (lung) changes including irritation, accumulation of fluid (congestion and oedema) and in some cases haemorrhage. Exposure may aggravate any pre-existing lung condition such as bronchitis, asthma or emphysema. Lead fume is toxic and acts as a cumulative poison. Regular blood testing should be considered for workers who are regularly exposed.

hydrogen cyanide(HCN), B3 = Acid gas or hydrogen cyanide(HCN), E = Sulfur dioxide(SO2), G = Agricultural chemicals, K = Ammonia(NH3), Hg = Mercury, NO = Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds(below 65 degC)

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	#229-4285 (NZ)	
Ingestion	Not normally a harard due to physical form of product	
Ingestion	Not normally a hazard due to physical form of product.	velding process. Skin exposure to UV can result in severe burns, in many cases
Skin Contact	without prior warning. Exposure to infrared radiation (IR), produced by the electric arc immediately below the surface. Except for this effect, which can to welders. Most welders protect themselves from IR (and UV) v	and other flame cutting equipment may heat the skin surface and the tissues progress to thermal burns in some situations, infrared radiation is not dangerous
Eye	Ultraviolet (UV) radiation can also damage the lens of the eye. Many arc welders are aware of the condition known as "arc-eye," a sensation of sand in the eyes. This condition is caused by excessive eye exposure to UV. Exposure to ultraviolet rays may also increase the skin effects of some industrial chemicals (coal tar and cresol compounds, for example). Exposure of the human eye to intense visible light can produce adaptation, pupillary reflex, and shading of the eyes. Such actions are protective mechanisms to prevent excessive light from being focused on the retina. In the arc welding process, eye exposure to intense visible light is prevented for the most part by the welder's helmet. However, some individuals have sustained retinal damage due to careless "viewing" of the arc. At no time should the arc be observed without eye protection. Furnes from welding/brazing operations may be irritating to the eyes.	
Chronic	 association between human exposure to the material and the deta There is sufficient evidence to establish a causal relationship between the off-spring. Serious damage (clear functional disturbance or morphological prepeated or prolonged exposure. As a rule the material produce become apparent following direct application in subchronic (90 of tests. Toxic: danger of serious damage to health by prolonged exposure. Fumes evolved during welding operations may be irritating to the Inhalation of freshly formed metal oxide particles sized below 1. fever". Symptoms may be delayed for up to 12 hours and begin Other symptoms include upper respiratory tract irritation accomp generalised feeling of malaise. Mild to severe headache, nauser sweating, diarrhoea, excessive urination and prostration may als symptoms usually subside within 24-36 hours following removal Swallowed: Principal route of exposure is inhalation of welding fumes from e appear as welding fume depending on welding conditions, relation cancer among welders indicate that they may experience a 30-dexposure to other cancer-causing agents, such as asbestos fibra a significant lung cancer risk. Whilst mild steel welding represent may be at risk and it is this factor which may account for the over are relatively harmless. Metal oxides generated by industrial processes such as welding fume stops. Chronic exposure to iron dusts may lead to primeron (respirables) articles for rous materials may lead to primeron (respirables) chronic exposure to iron dusts may lead to primeron (respirables) chronic exposure to iron dusts may lead to primeron (respirables) articles for rous materials may lead to prime welding arc emits ultraviolet radiation at wavelengths that hindividuals, however, no confirmatory studies of this effect in welding arc emits ultraviolet radiation at wavelengths that hindividuals, however, no confirmatory studies of this effect in we 	tween human exposure to the material and impaired fertility tween human exposure to the material and subsequent developmental toxic change which may have toxicological significance) is likely to be caused by s, or contains a substance which produces severe lesions. Such damage may day) toxicity studies or following sub-acute (28 day) or chronic (two-year) toxicity re through inhalation. e upper-respiratory tract and may be harmful if inhaled. 5 microns and generally between 0.02 to 0.05 microns may result in "metal fume with the sudden onset of thirst, and a sweet, metallic or foul taste in the mouth. banied by coughing and a dryness of the mucous membranes, lassitude and a a, occasional vomiting, fever or chills, exaggerated mental activity, profuse so occur. Tolerance to the fumes develops rapidly, but is quickly lost. All from exposure.
LOCTITE C 400 60EN 5C 0.7MM S known as 60EN	ΤΟΧΙΟΙΤΥ	IRRITATION
CRYSTAL 400 5C #229-4263 #229-4279 #229-4285 (NZ)	Not Available	Not Available
	ΤΟΧΙΟΙΤΥ	IRRITATION
welding fumes	Not Available	Not Available
	ΤΟΧΙΟΙΤΥ	IRRITATION
rosin core solder decomposition products	Not Available	Not Available
	ΤΟΧΙΟΙΤΥ	IRRITATION
	dermal (rat) LD50: >2000 mg/kg ^[1]	Eye: no adverse effect observed (not irritating) ^[1]
tin fume	Inhalation(Rat) LC50; >4.75 mg/l4h ^[1]	Skin: no adverse effect observed (not irritating) ^[1]
	Oral (Rat) LD50; >2000 mg/kg ^[1]	
	ΤΟΧΙΟΙΤΥ	IRRITATION
	dermal (rat) LD50: >2000 mg/kg ^[1]	Not Available
lead fumes		
lead fumes	Inhalation(Rat) LC50; >5.05 mg/l4h ^[1] Oral (Rat) LD50; >2000 mg/kg ^[1]	
lead fumes	Oral (Rat) LD50; >2000 mg/kg ^[1]	Acute toxicity 2.* Value obtained from manufacturer's SDS. Unless otherwise

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LOCTITE C 400 60EN 5C 0.7MM S known as 60EN CRYSTAL 400 5C #229-4263 #229-4279 #229-4285 (NZ)

WELDING FUMES	Most weiding is performed using electric arc processes - manual metal arc, metal inert gas (MG) and tungsten inert gas weiding (TG) - and motion weiding is on mild steal. The complexing foreign is a nuture of metal lumes (i.e., Iron, magnaces, electric in classifying stup has determined that 'sufficient evidence exists that weiding ture is a nuture of metal lumes (i.e., Iron, magnaces, electric in classifying weiding funces is its complexity. Generally, weiding ture is an instrue of metal lumes (i.e., Iron, magnaces, electric in dividual components that are disatified a human carcingopes, including hexavalent chromes and nickel. However the presence of such metals and the intensity of exposure to each differ significantly according to a nuther of variables, including the type of weiding electricar. There has been considerable evidence over several decades regarding cancer risks in relation to veiding activities. Several case-contol studies reported excess risks of ocular melanoma in weiders. This association may be due to the presence in some weiding environments of tures of tonium-222, which is sued in turging environments, notably in stainless steel weiding, do carry risks of lung cancer. This widespread consensus is in part based on empirical equivote an association may be due to the presence in some weiding furne acrosol magnapricies in mid steel environments may present different and complex prolles of exposures. In one study to characteries weiding furne acrosol magnapricies in and based on the minut on compounds, many mild steel weiding, should not carry risks. Dut is apparts that is in orisonassous is in part based on empirical evidence regarding risks among particles and risks in the distance and numerical weiding window the presence of nickel and chromium VI compounds, main may bet set admining, should not carry risks. Dut is apparts this line of reasoning in not supported by the accuruitate body of epidemiologic evidence. While there remained some uncertainty abut possible provision
rosin core solder decomposition products	The following information refers to contact allergens as a group and may not be specific to this product. Contact allergies quickly manifest themselves as contact eczema, more rarely as urticaria or Quincke's oedema. The pathogenesis of contact eczema involves a cell-mediated (T lymphocytes) immune reaction of the delayed type. Other allergic skin reactions, e.g. contact urticaria, involve antibody-mediated immune reactions. The significance of the contact allergies is not simply determined by its sensitisation potential: the distribution of the substance and the opportunities for contact with it are equally important. A weakly sensitising substance which is widely distributed can be a more important allergen than one with stronger sensitising potential with which few individuals come into contact. From a clinical point of view, substance and the opportunities for contact are exposure to the material ends. This may be due to a non-allergic condition known as reactive airways dysfunction syndrome (RADS) which can occur after exposure to high levels of highly irritating compound. Main criteria for diagnosing RADS include the absence of previous airways disease in a non-atopic individual, with sudden onset of persistent astma-like symptoms within minutes to hours of a documented exposure to the irritant. Other criteria for diagnosis of RADS include a reversible airflow pattern on lung function tests, moderate to severe bronchial hyperreactivity on methacholine challenge testing, and the lack of minimal lymphocytic inflammation, without eosinophilia. RADS (or asthma) following an irritating inhalation is an infrequent disorder with rates related to the concentration of a duration of exposure to the irritating substance (often particles) and is completely reversible after exposure ceases. The disorder is characterized by difficulty breathing, cough and mucus production. The material may produce respiratory tract irritation. Symptoms of pulmonary irritation may include coughing, wheezing, laryngitis, shortness of bre
TIN FUME	No significant acute toxicological data identified in literature search.

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LOCTITE C 400 60EN 5C 0.7MM S known as 60EN CRYSTAL 400 5C #229-4263 #229-4279 #229-4285 (NZ)

LEAD FUMES	WARNING: This substance has been classified by the	e IARC as Group 2B: Possibly Carcino	ogenic to Humans.
Acute Toxicity	✓	Carcinogenicity	•
Skin Irritation/Corrosion	×	Reproductivity	✓
Serious Eye Damage/Irritation	×	STOT - Single Exposure	×
Respiratory or Skin sensitisation	×	STOT - Repeated Exposure	*
Mutagenicity	×	Aspiration Hazard	×
		u	not available or does not fill the criteria for classification le to make classification

Toxicity

LOCTITE C 400 60EN 5C	Endpoint	Test Duration (hr)	Species		Value	Source
0.7MM S known as 60EN CRYSTAL 400 5C #229-4263 #229-4279 #229-4285 (NZ)	Not Available	Not Available	Not Available		Not Available	Not Available
	Endpoint	Test Duration (hr)	Species		Value	Source
welding fumes	Not Available	Not Available	Not Available		Not Available	Not Available
	Endpoint	Test Duration (hr)	Species		Value	Source
rosin core solder decomposition products	Not Available	Not Available	Not Available		Not Available	Not Availabl
	Endpoint	Test Duration (hr)	Species		Value	Source
tin fume	Not Available	Not Available	Not Available		Not Available	Not Availabl
	Endpoint	Test Duration (hr)	Species	Value	e	Sourc
	NOEC(ECx)	Not Available	Crustacea	0.051	Img/L	5
lead fumes	EC50	72h	Algae or other aquatic plants	1.191	Img/L	4
	LC50	96h	Fish	1.17r	ng/l	4
	EC50	96h	Algae or other aquatic plants	0.282	2-0.864mg/l	4
Legend:	Ecotox databas		CHA Registered Substances - Ecotoxicological Inforr C Aquatic Hazard Assessment Data 6. NITE (Japan)			

DO NOT discharge into sewer or waterways.

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air	
	No Data available for all ingredients	No Data available for all ingredients	
Bioaccumulative potent	ial		
Ingredient	Bioaccumulation		
	No Data available for all ingredients		
Mobility in soil			
Ingredient	Mobility		
	No Data available for all ingredients		

SECTION 13 Disposal considerations

Waste treatment methods

Product / Packaging disposal	 Recycle wherever possible or consult manufacturer for recycling options. Consult State Land Waste Management Authority for disposal. Bury residue in an authorised landfill. Recycle containers if possible, or dispose of in an authorised landfill.

Ensure that the hazardous substance is disposed in accordance with the Hazardous Substances (Disposal) Notice 2017

Disposal Requirements

LOCTITE C 400 60EN 5C 0.7MM S known as 60EN CRYSTAL 400 5C #229-4263 #229-4279 #229-4285 (NZ)

Packages that have been in direct contact with the hazardous substance must be only disposed if the hazardous substance was appropriately removed and cleaned out from the package. The package must be disposed according to the manufacturer's directions taking into account the material it is made of. Packages which hazardous content have been appropriately treated and removed may be recycled.

The hazardous substance must only be disposed if it has been treated by a method that changed the characteristics or composition of the substance and it is no longer hazardous. Only dispose to the environment if a tolerable exposure limit has been set for the substance.

Only deposit the hazardous substance into or onto a landfill or sewage facility or incinerator, where the hazardous substance can be handled and treated appropriately.

SECTION 14 Transport information

Labels Required	
Marine Pollutant	NO
HAZCHEM	Not Applicable

Land transport (UN): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

Product name	Group
welding fumes	Not Available
rosin core solder decomposition products	Not Available
tin fume	Not Available
lead fumes	Not Available

Transport in bulk in accordance with the ICG Code

Product name	Ship Type
welding fumes	Not Available
rosin core solder decomposition products	Not Available
tin fume	Not Available
lead fumes	Not Available

SECTION 15 Regulatory information

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

This substance is to be managed using the conditions specified in an applicable Group Standard

HSR Number	Group Standard	
HSR002531	Cleaning Products Carcinogenic Group Standard 2020	
HSR002512	Additives Process Chemicals and Raw Materials Carcinogenic Group Standard 2020	
HSR002607	Lubricants Carcinogenic Group Standard 2020	
HSR002616	Metal Industry Products Carcinogenic Group Standard 2020	
HSR002639	Photographic Chemicals Carcinogenic Group Standard 2020	
HSR002646	Polymers Carcinogenic Group Standard 2020	
HSR002648	Refining Catalysts Group Standard 2020	
HSR002655	Solvents Carcinogenic Group Standard 2020	
HSR002679	Surface Coatings and Colourants Carcinogenic Group Standard 2020	
HSR002687	Water Treatment Chemicals Carcinogenic Group Standard 2020	
HSR100425	Pharmaceutical Active Ingredients Group Standard 2020	
HSR002601	Leather and Textile Products Carcinogenic Group Standard 2020	
HSR002545	Construction Products Carcinogenic Group Standard 2020	
HSR002551	Corrosion Inhibitors Carcinogenic Group Standard 2020	
HSR002560	Dental Products Carcinogenic Group Standard 2020	
HSR002568	Embalming Products Carcinogenic Group Standard 2020	
HSR002586	Fuel Additives Carcinogenic Group Standard 2020	
HSR100757	Veterinary Medicines Limited Pack Size Finished Dose Group Standard 2020	
HSR100758	Veterinary Medicines Non dispersive Closed System Application Group Standard 2020	
HSR100759	Veterinary Medicines Non dispersive Open System Application Group Standard 2020	

Please refer to Section 8 of the SDS for any applicable tolerable exposure limit or Section 12 for environmental exposure limit.

welding fumes is found on the following regulatory lists

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Version No: 2.1 LOCTITE C 400 (60EN 5C 0.7MM S known as 6 #229-42	60EN CRYSTAL 400 5C #229-4263 #229-4279 85 (NZ)	Print Date: 19/09/2022	
International Agency for Research on Cancer (IARC Monographs	c) - Agents Classified by the IARC	New Zealand Workplace Exposure Standards (WES)		
International Agency for Research on Cancer (IARC Monographs - Group 1: Carcinogenic to humans	c) - Agents Classified by the IARC			
rosin core solder decomposition products is for	und on the following regulatory lists			
Not Applicable				
tin fume is found on the following regulatory list	ts			
International WHO List of Proposed Occupational E Manufactured Nanomaterials (MNMS)	xposure Limit (OEL) Values for	New Zealand Hazardous Substances and New Organisms (H of Chemicals - Classification Data	SNO) Act - Classification	
New Zealand Approved Hazardous Substances with controls		New Zealand Inventory of Chemicals (NZIoC)		
New Zealand Hazardous Substances and New Org of Chemicals	anisms (HSNO) Act - Classification	New Zealand Workplace Exposure Standards (WES)		
lead fumes is found on the following regulatory	lists			
Chemical Footprint Project - Chemicals of High Cor	icern List	New Zealand Approved Hazardous Substances with controls		
International Agency for Research on Cancer (IARC Monographs	c) - Agents Classified by the IARC	New Zealand Hazardous Substances and New Organisms (H of Chemicals	SNO) Act - Classification	
International Agency for Research on Cancer (IARC Monographs - Group 1: Carcinogenic to humans	c) - Agents Classified by the IARC	New Zealand Hazardous Substances and New Organisms (H of Chemicals - Classification Data	SNO) Act - Classification	
International Agency for Research on Cancer (IARC	, ,	New Zealand Inventory of Chemicals (NZIoC)		

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Group 2B: Possibly carcinogenic to humans

International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)

Hazardous Substance Location

Subject to the Health and Safety at Work (Hazardous Substances) Regulations 2017.

Hazard Class	Quantities
Not Applicable	Not Applicable

New Zealand Workplace Exposure Standards (WES)

Certified Handler

Subject to Part 4 of the Health and Safety at Work (Hazardous Substances) Regulations 2017.

Class of substance	Quantities
Not Applicable	Not Applicable

Refer Group Standards for further information

Maximum quantities of certain hazardous substances permitted on passenger service vehicles

Subject to Regulation 13.14 of the Health and Safety at Work (Hazardous Substances) Regulations 2017.

Hazard Class	Gas (aggregate water capacity in mL)	Liquid (L)	Solid (kg)	Maximum quantity per package for each classification
Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable

Tracking Requirements

Not Applicable

National Inventory Status

National Inventory	Status
Australia - AIIC / Australia Non-Industrial Use	Yes
Canada - DSL	Yes
Canada - NDSL	No (tin fume; lead fumes)
China - IECSC	Yes
Europe - EINEC / ELINCS / NLP	Yes
Japan - ENCS	No (tin fume; lead fumes)
Korea - KECI	Yes
New Zealand - NZIoC	Yes
Philippines - PICCS	Yes
USA - TSCA	Yes
Taiwan - TCSI	Yes
Mexico - INSQ	Yes
Vietnam - NCI	Yes
Russia - FBEPH	Yes
Legend:	Yes = All CAS declared ingredients are on the inventory No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require registration.

SECTION 16 Other information

Revision Date 15/07/2020

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LOCTITE C 400 60EN 5C 0.7MM S known as 60EN CRYSTAL 400 5C #229-4263 #229-4279 #229-4285 (NZ)

Initial Date 15/07/2020

Version Date of Update Sections Updated 2.1 15/07/2020 Acute Health (inhaled), Chronic Health, Classification, Storage (storage requirement)

Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

Definitions and abbreviations

PC-TWA: Permissible Concentration-Time Weighted Average PC-STEL: Permissible Concentration-Short Term Exposure Limit IARC: International Agency for Research on Cancer ACGIH: American Conference of Governmental Industrial Hygienists STEL: Short Term Exposure Limit TEEL: Temporary Emergency Exposure Limit。 IDLH: Immediately Dangerous to Life or Health Concentrations ES: Exposure Standard OSF: Odour Safety Factor NOAEL :No Observed Adverse Effect Level LOAEL: Lowest Observed Adverse Effect Level TLV: Threshold Limit Value LOD: Limit Of Detection OTV: Odour Threshold Value BCF: BioConcentration Factors BEI: Biological Exposure Index AIIC: Australian Inventory of Industrial Chemicals DSL: Domestic Substances List NDSL: Non-Domestic Substances List IECSC: Inventory of Existing Chemical Substance in China EINECS: European INventory of Existing Commercial chemical Substances ELINCS: European List of Notified Chemical Substances NLP: No-Longer Polymers ENCS: Existing and New Chemical Substances Inventory KECI: Korea Existing Chemicals Inventory NZIoC: New Zealand Inventory of Chemicals PICCS: Philippine Inventory of Chemicals and Chemical Substances TSCA: Toxic Substances Control Act TCSI: Taiwan Chemical Substance Inventory INSQ: Inventario Nacional de Sustancias Químicas NCI: National Chemical Inventory FBEPH: Russian Register of Potentially Hazardous Chemical and Biological Substances

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