



A NEW FORCE IN CHEMICAL MANUFACTURING

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SAFETY DATA SHEET

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

Flux 264-5

SECTION 1 - IDENTIFICATION OF THE MATERIAL & COMPANY INFORMATION

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PRODUCT NAME Flux 264-5
PRODUCT TYPE Solder Flux
PART NUMBER 264-5
AVAILABLE SIZES 1L, 5L, 20L 55ml & 250ml

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	Chemical Name	CAS Number	Proportion % w/w
Isopropyl alcohol	2-propanol	67-63-0	60 - 100
Petroleum distillates	Naphtha, heavy alkylate	64741-65-7	1 - 5

SECTION 3 - HAZARDS IDENTIFICATION

General hazard statement Classified as hazardous according to the criteria of NOHSC.
Hazard classification Harmful. Carc. Cat. 2. Hazardous Substance. Dangerous Goods.
Risk phrase(s) R11 – Highly flammable
R18 – In use, may form flammable/explosive vapour-air mixture
R65 – Harmful: May cause lung damage if swallowed.
Safety phrase(s) S53 – Avoid exposure – obtain special instructions before use
S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label whenever possible)
Routes of entry Absorbed through skin. Eye contact. Inhalation. Ingestion. Skin contact.
Potential acute health effects Fumes and/or dusts produced by this product may be hazardous in case of inhalation. This product may be hazardous in case of skin contact (irritant, sensitiser, permeator), of eye contact (irritant), of ingestion.
Potential chronic health effects

SECTION 4 - FIRST AID MEASURES

Description of necessary measures according to routes of exposure

Eye contact	Check for and remove any contact lenses. IMMEDIATELY flush eyes with running water for at least 15 minutes, keeping eyelids open. COLD water may be used. DO NOT use an eye ointment. Seek medical attention.
Skin contact	After contact with skin, wash immediately with plenty of water. Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. COLD water may be used. Cover the irritated skin with an emollient. If irritation persists, seek medical attention. Was contaminated clothing before reusing.
Hazardous skin contact	Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek immediate medical attention.
Inhalation	Allow the victim to rest in a well-ventilated area. Seek immediate medical attention.
Hazardous inhalation	Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. WARNING: It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled material is toxic, infectious or corrosive. Seek immediate medical attention.
Ingestion	DO NOT induce vomiting. Examine the lips and mouth to ascertain whether the tissues are damaged, a possible indication that the toxic material was ingested; the absence of such signs, however, is not conclusive. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.
Hazardous ingestion	No additional information
Indication of medical attention and special treatment needed including description of most important symptoms, acute and delayed	
Aggravated medical conditions caused by exposure	None known.

SECTION 5 - FIRE FIGHTING MEASURES

Suitable extinguishing media	Small fire: Use DRY chemical powder. Large fire: Use alcohol foam, water spray or fog. Flammable liquid, soluble or dispersed in water.
Hazards from combustion products	Products are carbon oxides; carbon monoxide and carbon dioxide.
Special protective precautions	
Special equipment for fire fighters	
Hazchem Code	2[Y]E

SECTION 6 - ACCIDENTAL RELEASE MEASURES
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Emergency procedures	<p><u>Small spill</u> – Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container. If necessary neutralise the residue with a dilute solution of sodium carbonate.</p> <p><u>Large spill</u> – Flammable liquid – Keep away from heat. Keep away from sources of ignition. Stop leak if without risk. Absorb with DRY earth, sand or other non-combustible material. DO NOT touch spilled material. Prevent entry into sewers, basements or confined areas; dyke if needed. Eliminate all sources of ignition. Neutralise the residue with a dilute solution of sodium carbonate. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS with local authorities.</p>
Methods and materials for containment and clean up	Dry earth sand or other dry absorbent material. Sodium carbonate.

SECTION 7 - HANDLING AND STORAGE

Precautions for safe handling	Wear suitable protective clothing. Use in a well ventilated area. When using, do not eat, drink or smoke. Avoid contact with skin and eyes. After handling, always wash hands thoroughly with soap and water.
Conditions for safe storage, including any incompatibilities	<p>Keep container tightly closed. Keep in a cool, well-ventilated place. Highly toxic or infectious materials should be stored in a separate locked safety storage cabinet or room.</p> <p>Highly flammable in presence of open flames and sparks, of heat, of oxidising materials. Flammable in the presence of combustible materials.</p>

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

National exposure standards	<p><u>Isopropyl alcohol</u> TWA: 400ppm, 983 mg/m³ from HSIS STEL: 500ppm, 1230 mg/m³ from HSIS</p> <p><u>Petroleum distillates</u> Not available</p>
Biological limit values	
Engineering controls	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapours below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.
Personal protective equipment	<p>HANDLING: gloves, safety glasses.</p> <p>GENERAL USE: Use gloves [suitable to the operation], safety glasses or splash goggles; wear appropriate respirator when ventilation is inadequate. Be sure to use a MSHA/NIOSH approved respirator or equivalent. Suggested protective clothing may not be adequate for a specific process. Consult a specialist before handling.</p>
Personal protection in case of a large spill	Splash goggles. Full suit. Vapour respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance (colour, physical form, shape)	Liquid, colourless to light yellow
Odour	Alcohol like
pH	Acidic
Vapour pressure	Weighted average 32.2 mm of Hg @ 20° C

Vapour density	>1 (Air = 1)
Boiling point/range	Boiling point 82.2 °C
Freezing/melting point	Melting point weighted average: -87.81° C
Solubility (specify solvent)	Easily soluble in cold water, hot water. Partly soluble in methanol, diethyl ether, n-octanol
Specific gravity or density	0.79 to 0.81.
Flashpoint	CLOSED CUP: <10°C (ASTM D-56 (Tagliabue)).
Flammability	Flammable.
Upper and lower flammable limits	The greatest known range is: Lower 2%, Upper 12% (isopropanol)
Ignition temperature	Not available.
Viscosity	Not available.
Ionicity (in water)	Not available.
Dispersion properties	See solubility in water, methanol, diethyl ether, n-octanol.
Evaporation rate	Weighted average: 0.1 compared to butyl acetate.
Water/Oil Dist. Coeff.	The product is more soluble in water.

SECTION 10 - STABILITY AND REACTIVITY

Chemical stability	The product is stable.
Conditions of instability	Flammable under fire conditions.
Conditions to avoid	High temperatures, open flames and sparks
Incompatible materials	Reactive with oxidising agents, acids. Slightly reactive with reducing agents, alkalis, moisture. Non reactive with organic materials.
Hazardous decomposition products	Carbon dioxide and carbon monoxide. When heated to decomposition it emits acrid smoke and fumes.
Hazardous reactions	Vapour and air form an explosive mixture.
Hazardous polymerisation	No.

SECTION 11 - TOXICOLOGICAL INFORMATION

Health effects from likely routes of exposure

Toxicity to animals	<u>Isopropyl alcohol</u> Rat– Oral LD ₅₀ : 5045 mg/kg Rat – 8 hour Inhalation LC ₅₀ : 16000 ppm Rabbit – Skin LD ₅₀ 12.8mg/kg <u>Petroleum distillates</u> Rat – Acute Oral LD ₅₀ : 8000 mg/kg Rabbit – Acute Dermal LD ₅₀ : 4000 mg/kg
Chronic effects on humans	Carcinogenic effects: [Mixture]: Classified 3 (Not classifiable for human) by IARC, A4 (Not classifiable for human or animal) by ACGIH. Carc. Cat. 2 by NOHSC. Developmental toxicity: PROVEN for Isopropyl alcohol Mutagenic effects: Not available. Teratogenic effects: Not available. The product may be toxic to upper respiratory tract, skin, eyes, the reproductive system. The product is not toxic to blood, kidneys, lungs, mucous membranes. Repeated or prolonged exposure to the substance can produce target organs damage. Repeated exposure to toxic material may produce general deterioration of health by an accumulation in one of many human organs.

Other toxic effects on humans	Fumes and/or dusts produced by this product may be hazardous in case of inhalation. This product may be hazardous in case of skin contact (irritant, sensitiser, permeator), of eye contact (irritant), of ingestion. Non corrosive for skin.
Special remarks on chronic effects on humans	Human: isopropyl alcohol is excreted in maternal milk.
Special remarks on other toxic effects on humans	<p>INHALATION: Inhalation may irritate the respiratory tract. Exposure can cause nausea, headache and vomiting.</p> <p>INGESTION: Ingestion causes burns to the mouth, pharynx and gastrointestinal tract; nausea, vomiting, shortness of breath, abdominal pain, collapses and possible death.</p> <p>SKIN: Prolonged and repeated contact may cause irritation, dermatitis and defatting of the skin.</p> <p>EYES: May cause watering of eyes and inflammation of conjunctiva and painful burns.</p>

SECTION 12 – ECOLOGICAL INFORMATION

Ecotoxicity	Not available
Persistence and degradability	
Products of biodegradation	Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.
Toxicity of the products of biodegradation	The products of degradation are less toxic.
Mobility	Not available
Environmental fate	Not available
Bioaccumulative potential	Not available

SECTION 13 - DISPOSAL CONSIDERATIONS

Disposal methods and containers	Recycle if possible. Consult your local or regional authorities.
Special precautions for landfill or incineration	

SECTION 14 - TRANSPORT INFORMATION

Dangerous Goods Classification	Class 3: Flammable Liquid
UN Number	1993
UN Proper Shipping Name	FLAMMABLE LIQUID NOS. (Isopropanol, petroleum distillates)
Class and subsidiary risk	Class 3
Packing Group	II
Special precautions for user	
Hazchem Code	3[Y]E
IMDG Classification	IMDG Class 3.1 Flammable Liquid (Low flash point)
IATA Classification	IATA Class 3: Flammable Liquid

SECTION 15 - REGULATORY INFORMATION

The regulatory status of a material (including its ingredients) under relevant Australian health, safety and environmental legislation

Additional national and/or international regulatory information

Classifications	WHMIS (Canada) WHMIS CLASS B-2: Flammable liquid with a flash point lower than 37.8 °C. WHMIS CLASS D-2A: Material causing other toxic effects (VERY TOXIC)
SUSDP Poison Schedule	Ingredients not listed

DISCLAIMER

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

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

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

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

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

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

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

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