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MATERIAL SAFETY DATA SHEET

Section 1 - IDENTIFICATION

SAC305 NC257-2 **Product name** Other names Not available

Recommended use/s Solder paste for industrial applications in the electronics industry.

Okay Technologies **Supplier name**

Address Unit 4.3 Pullman Place. Emu Plains. NSW. 2750

Telephone number 02 4735 3126 02 4735 3746

Emergency telephone number Australia: Poisons Information Centre 13 1126

International: Infotrac (708) 918-1900

Section 2 - HAZARDS IDENTIFICATION

Classified as Hazardous according to the criteria of SafeWork Australia **General hazard statement**

Hazard classification Hazardous Substance. Non Dangerous Goods.

Risk phrase(s) Irritant

R36/38 – Irritating to eyes and skin.

R42/43 - May cause sensitisation by skin contact and by inhalation.

Safety phrase(s) S2 - Keep out of the reach of children

S24 - Avoid contact with the skin S37 - Wear suitable gloves

S26 - In case of contact with eyes, rinse immediately with plenty of water and seek

medical advice. Inhalation. Ingestion.

Routes of entry

Potential acute health effects Inhalation: Fumes and/or dusts produced by this product may be hazardous in case

Skin: This product may be hazardous in case of skin contact (irritant, sensitiser). Skin inflammation is characterised by itching, scaling, reddening, or, occasionally,

Eyes: This product may be hazardous in case of eye contact (irritant). Inflammation

of the eyes is characterised by redness, watering and itching.

Ingestion: Fumes and/or dusts produced by this product may be hazardous in case

of ingestion.

Fumes and/or dusts produced by this product may be hazardous in case of Potential chronic health effects

ingestion, or inhalation. This product may be hazardous in case of skin contact (irritant, sensitiser), of eye contact (irritant). As shipped this product is not hazardous

in case of skin contact (permeator). Non-corrosive for skin.

Section 3 - COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient **Chemical Name CAS Number** Proportion % w/w Tin Tin 7440-31-5 700 - 100 Silver Silver 7440-22-4 1.5 - 565997-06-0 1.5 - 5Hydrogenated Rosin

Section 4 - FIRST AID MEASURES

Standard SUSDP First Aid

Statement

Description of necessary measures according to routes of exposure:

Eye contact

If poisoning occurs, contact a doctor or Poisons Information Centre.

Phone 13 1126 (Australia).

Check for and remove any contact lenses. Flush eyes with plenty of water for at

least 15 minutes. DO NOT use an eye ointment. Seek immediate medical

In case of contact, immediately flush skin with plenty of water for at least 15 Skin contact

> minutes while removing contaminated clothing. Cover the irritated skin with an emollient. Wash clothing before reuse. Thoroughly clean shoes before reuse.

Seek medical attention.



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Hazardous skin contact Wash with a disinfectant soap and cover the contaminated skin with an anti-

bacterial cream.

MOLTEN METAL can cause SEVERE BURNS. In case of burns: run cold water over the affected area for at least 20 minutes then place a sterile covering over

the area. Seek immediate medical attention.

Inhalation If inhaled, remove to fresh air. If not breathing, give artificial respiration. If

breathing is difficult, give oxygen. Get medical attention immediately.

Hazardous inhalation No additional information. Seek immediate medical attention.

Ingestion

If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention

immediately.

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

Repeated exposure to toxic material may produce general deterioration of health

by an accumulation in one or many human organs.

Section 5 - FIREFIGHTING MEASURES

Suitable extinguishing media Small fire: Use DRY chemical powder.

Large fire: Use water spray, fog or foam. NO water jet.

Hazards from combustion products Products are carbon, nitrogen oxides and some metallic oxides; carbon

monoxide, carbon dioxide.

Special protective precautions

Special equipment for fire fighters

Use an approved/certified respirator or equivalent

Hazchem Code Special remarks on fire hazards

Metallic part of product is non-flammable. Dust and powders may be flammable (tin). The organic medium may burn if exposed to direct flame. Non explosive in

presence of shocks, of heat.

Section 6 - ACCIDENTAL RELEASE MEASURES

Emergency procedures Small spill and leak – MOLTEN METAL: Let cool before picking up and returning

to process or recycling. OTHER: Use appropriate tools to put the spilled solid in a container reserved to that effect and dispose of according to local and regional

authority requirements.

<u>Large spill</u> – Our data base contains no additional information in case of a large

spill and/or leak of the product.

Methods and materials for containment and clean up

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, Do not ingest.. After

handling, always wash hands thoroughly with soap and water.

Conditions for safe storage, including any incompatibilities

Keep container dry. Keep in a cool place. Follow special instructions on container and analysis reports for additional storage information.

Section 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

National exposure standards <u>Tin</u>

TWA: 2 mg/m³ from HSIS Respirable

Silver

TWA: 0.1 mg/m³ from HSIS Respirable

Rosin, hydrogenated Not available.

Biological limit values

No information.

Engineering controls

Use process enclosures, local exhaust ventilation, or other engineering controls to

keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne

contaminants below the exposure limit.

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Personal protective equipment HANDLING: gloves (disposable or vinyl), safety glasses or splash goggles, lab coat.

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.

Personal protection in case of a No additional information.

large spill

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance (colour, physical

form, shape)

Odour рΗ Vapour pressure Vapour density Boiling point/range Freezing/melting point

Solubility (specify solvent)

Specific gravity or density

Flashpoint Flammability

Upper and lower flammable limits

Ignition temperature

Viscosity Ionicity (in water)

Dispersion properties

Evaporation rate Water/Oil Dist. Coeff.

Corrosivity

Dark grey solid (paste).

Typical rosin. Not applicable. Not available Not available Not available

Melting point weighted average: 246 ° C

Insoluble in water and oil, n-octanol, acetone, partially soluble in diethyl ether, very

slightly soluble in methanol.

Weighted average 5.96 (water = 1.0)

350 to 1200 KcPs (see certificate for specific value)

Non-ionic

Is not dispersed in cold water, hot water, n-octanol, and acetone.

Lower than 1

Corrosive in presence of copper. The organic medium in the paste has the task of

cleaning (removing and preventing oxidation) the surface for soldering.

Section 10 - STABILITY AND REACTIVITY

Chemical stability Conditions of instability

Conditions to avoid

Incompatible materials **Hazardous decomposition**

products

Hazardous reactions Hazardous polymerisation The product is stable.

Stable in normal conditions. Over the melting point may emit toxic metallic oxide

fumes. A small amount of organic fumes may also be evolved.

Reactive with oxidising agents.

Tin oxide fumes.

Section 11 - TOXICOLOGICAL INFORMATION

Health effects from likely routes of exposure

Toxicity to animals Hydrogenated Rosin

> Rat - Acute Oral LD50: 8400 mg/Kg Guinea Pig - Acute Oral LD50: 5000 mg/Kg

Rosin Not available

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Chronic effects on humans

Carcinogenic effects: [Tin]: Classified (None) by NIOSH. [Silver]: Classified (None) by NIOSH. [Copper]: Classified (None) by NIOSH. [Rosin]: Classified 4 (Probably not for human) by IARC. [Rosin thermal decomposition product (as formaldehyde)]:Classified + (Proven) by NIOSH.

Developmental toxicity: Not toxic. Mutagenic effects: Not available. Teratogenic effects: Not available.

The product may be toxic to lungs, upper respiratory tract, skin, eyes, blood, kidneys, the nervous system, the reproductive system, spleen, brain, digestive system, gastro-intestinal tract, eye, lens or cornea, thyroid. 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 or many human organs. No additional information.

Other toxic effects on humans Special remarks on chronic effects on humans

Overexposure to fumes may cause irritation to the respiratory tract, digestive system and to the eyes. Overexposure to tin oxide fumes may results in benign

pneumoconiosis (stannosis).

Repeated and prolonged contact may cause skin irritation, dermatitis and/or an

allergic skin reaction (sensitisation) in susceptible individuals.

Special remarks on other toxic effects on humans

Inhalation of smoke or fumes, at high temperatures, may cause an asthmatic reaction in some individuals. Prolonged and repeated contact with bare skin may cause irritation or dermatitis. MOLTEN METAL can cause severe BURNS.

Section 12 - ECOLOGICAL INFORMATION

Not available. **Ecotoxicity** Persistence and degradability Not available.

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

Mobility **Environmental fate** Bioaccumulative potential Not available. Not available.

Not available.

Section 13 - DISPOSAL CONSIDERATIONS

Disposal methods and containers Special precautions for landfill or incineration

Waste must be disposed of in accordance with local regulations.

The products of degradation are less toxic than the product itself.

No additional information.

Section 14 - TRANSPORT INFORMATION

Dangerous Goods Classification Not a Dangerous Good by the ADG Code. [Australia]

UN Number Not applicable **UN Proper Shipping Name** Not applicable Class and subsidiary risk Not applicable Not applicable **Packing Group**

Special precautions for user

Hazchem Code Not applicable Not controlled **IMDG Classification IATA Classification** Not controlled

ADR/RID Classification Not controlled (Europe)

Section 15 - REGULATORY INFORMATION

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

Poisons Scheduling (Australia SUSDP)

Based on the ingredients this product is not a scheduled poison.

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Additional national and/or international regulatory information Classifications

Section 16 - OTHER INFORMATION

Date of preparation or last revision 08 March 2010

of this MSDS

Key/legend to abbreviations and acronyms used in the MSDS

IATA - International Air Transport Association

WHMIS - Workplace Hazardous Materials Information System

HSIS - Hazardous Substance Information System

ACGIH - American Conference of Government Industrial Hygienists

IARC - Inter Agency Regulatory Council

NOHSC - National Occupational Health and Safety Commission (Australia) SUSDP - Standard for the Uniform Scheduling of Drugs and Poisons (Australia)

STEL - Short Term Exposure Limit

OSHA - Occupational Safety and Health Administration

NTP - National Toxicology Program PEL – Permissible Exposure Limit

TWA - Time Weighted Averages TLV - Threshold Limit Value NIOSH - National Institute of Occupational Health and Safety

Literature references Sources for data

United States MSDS for SAC305 NC257-2 dated 04/04/2008

Australian ADG Code

HSIS – List of designated hazardous substances (Australia)

Standard for the Uniform Scheduling of Drugs and Poisons (Australia)

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

End of MSDS

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