

MATERIAL SAFETY DATA SHEET

MS2® 201 LF

Molten Solder Surfactant

(Lead-Free – RoHS Compliant)
Us and Foreign Patents Issued and Pending

1. Product and Company Identification

Commerical Description – MS2® Molten Solder Surfactant for use with lead-free (RoHS-compliant)

solder processes This product conforms to ANSI Z400. 1-1993 and ISO 11014

Manufactured by: P. Kay Metal, Inc.

2448 E 25th Street

Los Angeles, CA 90058 Telephone 323-585-5058

Emergency Phone: 1-800-535-5053 (Infotrac)

2. Composition / Information on Ingredients

DescriptionCAS NumberContentCarboxy Alkanes67254-79-9>93%Polyalpha Olefins68649-12-7>5%ColorantProprietory<1%</td>Aromatic Esters<1%</td>

Hazards Identification Not Considered as Hazardous

NFPA (National Fire Protection Association) Health 0 – Insignificant

Flammability 1 – Slight

Reactivity 0 – Insignificant

Special Hazards None

3. Hazards Identification

Human Helath Hazards

Inhalation Not Applicable at ambient temperature

Skin Unlikely to be irritant Eye Contact Can cause irritation

Ingestion Unlikely to be harmful unless excessive amount swallowed

Physical/Chemical Hazards None identified Environmental Hazards None identified

4. First Aid Measures

Inhalation Remove to fresh air

Skin Contact Wash off with water and soap

Eye Contact Wash off with water. Get medical attention if any sensation persists Ingestion Remove material from mouth. Drink plenty of water. If large amount

swallowed or symptoms develop get medical attention

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5. Fire Fighting Measures

Extinguishing Media Dry chemical, water spray, foam, carbon dioxide

Unsuitable Extingusihing Media none

Specific Hazards Thermal decomposition will evolve irritant vapors

Protection of Fire Fighters Self-contained breathing apparatus, full protective clothing

6. Accidental Release Measures

Personal Precautions Avoid contact with eyes. Do not breathe vapor

Environmental Precautions Minimize contamination of drains, surface, and ground water Methods for Cleaning Up Transfer product to suitably labeled containers for disposal at an

approved site

Absorb liquid spillage on inert material (e.g. sand). Residues and small

spillage may be washed away with water and detergent.

Other information Spillages or uncontrolled discharge into watercourses must be alerted to

the appropriate regulatory body

7. Handling and Storage

Handling No specific protective measures are required

Storage Store in the original closed containers

Other information For quality reasons: avoid elevated temperatures

Shelf 2 years from date of manufacture

8. Exposure Control / Personal Protection

Ensure ventilation or local exhaust if formation of vapor occurs

Hygiene Measures Good industrial hygiene should be followed

Occupational Exposure No occupational exposure limits have been established Personal Protective Equipment Normal precautions should be observed as for handling all

chemicals.

9. Physical and Chemical Properties

Physical State Liquid (20°C)

Color Green Odor None

PH Not applicable

Boiling Point/Boiling Range >300°C

Flash Point 315° (COC)

Flammability Not applicable

Auto-ignition Temperature 400° C

Explosion Properties

Oxidation Properties

Density

Not to be expected

Solubility in Water Insoluble

Solubility in Other Ingredients Soluble in most organic solvents

Viscosity 7500 mPa.s (25°C)

Volatile Organic Compound VOC Not volatile ambient

10. Stability and Reactivity

Stability Stable under normal conditions

Conditions to Avoid

Materials to Avoid

Not Known

Oxidizing agents

Hazardous Reactions None Hazardous Decompositions Products None

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11. Toxicological Information

Acute Toxicity

Oral – LD 50 >2 g/kg (rat)

Skin Irritation Not irritating (rabbit)
Eye Irritation Not irritating (rabbit)

Mutagenicity Negative (in-vitro short-term genotoxicity tests)

12. Ecological Information

Degradability <10% degradation within 28 days according to the modified

LC 50 >100mg/l (fish – 48 hours)

EC50 >100mg/l (Pseudomonas putida – 16 hours)

NOEC >85mg/I (fish – 28 days)

Not toxic at concentration will above the water solubility

13. Disposal Consideration

Methods of Disposal Return to manufacturer for recycle. Contact P.Kay Metal,Inc.

14. Transportation Information

D.O.T. Classification Not restricted

15. Regulatory Information

OSHA HCS (29 CFR Not hazardous 1920.1200)

SATA Title III Section313 Not listed

<u>Inventory Status</u>

USA TSCA-CSI EU NLP List CANADA DSL

Japan ENCS (8-3050)

Australia AICS

Korea ECL (16486)

Philippines PICCS

China SEPA/First import

Switzerland Gifkklasse/frei: BAG-T Nr. 618400

16. History

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