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1. PRODUCT IDENTIFICATION

Product ID#: D2863
Product Name: Jonquil Yellow
Recommended Use: Industrial use only
Uses advised against: Toys and food contact
Supplier Name: Reusche & Co.
Responsible Party: Jon C. Rarick, Site Manager

2. HAZARD(S) IDENTIFICATION

Classification of the substance or mixture

| | |
|----------------|------------|
| Health Hazard | Category 2 |
| Environment | Category 1 |
| Acute Toxicity | Category 4 |

Symbol(s)

Xn-Health Hazard
N-Environment
Xi-Acute Toxicity



Signal Word

Danger

Hazard Statements

H302 Harmful if swallowed
H312 Harmful in contact with skin

2. **HAZARD(S) IDENTIFICATION CONT.**

H332 Harmful if inhaled
H351 Suspected of causing cancer
H360 May damage fertility or the unborn child
H371 May cause damage to organs
H412 Harmful to aquatic life with long lasting effects

Precautionary statements

General

P102 Keep away from children
P103 Read label before use

Prevention

P233 Keep container tightly closed
P261 Avoid breathing dust/fume/gas/mist/vapours/spray
P262 Do not get in eyes, on skin, or on clothing
P263 Avoid contact during pregnancy/while nursing
P264 Wash hands/skin thoroughly after handling
P270 Do not eat, drink, or smoke when using this product
P272 Contaminated work clothing should not be allowed out of the workplace
P273 Avoid release into the environment
P280 Wear protective gloves/protective clothing/eye protection/face protection
P284 Wear respiratory protection

Response

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
P304+P311 IF INHALED: Call a POISON CENTER or doctor/physician
P306+P362 IF ON CLOTHING: Take off contaminated clothing and wash before re-use
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

Storage

P405 Store locked up

Other Hazards

Contains lead and/or cadmium which are known cancer hazards
Should not be used on children's products or food surfaces

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical name | WT% | TLV | PEL |
|-------------------|-------|--------------------------|--------------------------|
| Alumina | 0-5 | 10.00 MG AL/CU M AIR TWA | 5.00 MG AL/CU M AIR TWA |
| Barium, Soluable | 0-5 | 0.50 MG BA/CU M AIR TWA | 0.50 MG BA/CU M AIR TWA |
| Borates | 0-7 | 10.00 MG BO/CU M AIR TWA | 10.00 MG BO/CU M AIR TWA |
| Cadmium CMPDS | 3-13 | 0.02 MG CD/CU M AIR TWA | 0.002 MG CD/CU M AIR TWA |
| Inorg. Lead CMPDS | 41-51 | 0.15 MG PB/CU M AIR TWA | 0.05 MG PB/CU M AIR TWA |
| Selenium CMPDS | 0-5 | | 0.20 MG SE/CU M AIR TWA |
| Silica, Quartz | 0-6 | 0.10 MG SI/CU M AIR TWA | 5.00 MG SI/CU M AIR TWA |
| Titanium | 0-6 | 10.00 MG TI/CU M AIR TWA | 5.00 MG TI/CU M AIR TWA |
| Zinc CMPDS | 0-5 | 5.00 MG ZN/CU M AIR TWA | 5.00 MG ZN/CU M AIR TWA |
| Zirconium CMPDS | 0-6 | 5.00 MG ZR/CU M AIR TWA | 5.00 MG ZR/CU M AIR TWA |

*Specific chemical identity and/or percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

Description of first aid measures

Eye contact: Rinse immediately for at least 15 minutes with plenty of water also under the eyelids.

Skin contact: Wash off immediately with plenty of soap and water. Remove and wash contaminated clothing before re-use

Ingestion: Immediately contact a doctor

Inhalation: Immediately contact a doctor

Notes to doctor: If swallowed, gastric irrigation

Most important symptoms and effects, both acute and delayed-Headache, cramps, gastric or intestinal disorders, nausea. Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident

Indication of immediate medical attention and special treatment needed : If swallowed, gastric irrigation

Protection of first-aiders: Treat symptomatically

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media Use fire fighting measures that suit the environment

Unsuitable extinguishing media Do not use solid water stream as it may scatter and spread fire

Special exposure hazards Formation of toxic gases is possible during heating or in case of fire

Special protective equipment for fire fighters As in any fire, wear self-contained breathing apparatus and full protective gear

6. ACCIDENTAL RELEASE MEASURES

Personal precautions Avoid formation of dust

Methods and materials for containment and cleaning up Wear personal protective equipment. Dispose of in accordance with federal, state and local regulations. Do not allow product to reach sewage system or any water course. Ensure adequate ventilation

7. HANDLING AND STORAGE

Precautions for safe handling Prevent formation of dust. Ensure good ventilation/exhaustion at the workplace. Use personal protective equipment

Conditions for safe storage Keep tightly closed in a dry, cool and well-ventilated place. Keep product away from foodstuffs

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limits None found

Engineering controls Provide appropriate exhaust ventilation at machinery and at places where dust or fumes can be generated. Ensure that eyewash stations and safety showers are proximal to the workstation location.

Personal protection measures Safety glasses with side-shields, rubber gloves, protective clothing such as impervious plastic overalls or aprons with sleeve covers, NIOSH approved respirators equipped with fume, and mist H.E.P.A. filter cartridges during all handling operations recommended. Follow manufacturers recommendations. Do not eat, drink or smoke when using this product. Wash thoroughly after handling.

Environmental controls Prevent product from entering drains. Do not allow material to contaminate ground water system.

9. PHYSICAL AND CHEMICAL PROPERTIES

General information

Appearance Powder

Odor Odorless

Important health safety and environmental information

| | |
|---------------------------------------|--------------------------|
| pH | No information available |
| Melting point/freezing point | No information available |
| Boiling point/boiling range, F | No information available |
| Flash point, F | Not applicable |
| Evaporation rate | No information available |
| Flammability (solid, gas) | No information available |

| | |
|---|--------------------------|
| Upper/lower flammability exp. Limits | No information available |
| Vapor pressure | No information available |
| Vapor density | No information available |
| Relative density | No information available |
| Solubility(ies) | Insoluble |
| Partition coefficient | No information available |
| Auto-ignition temperature | No information available |
| Decomposition temperature | No information available |
| Viscosity | No information available |

10. STABILITY AND REACTIVITY

| | |
|---|--------------------------------|
| Reactivity | No data Available |
| Chemical Stability | Stable under normal conditions |
| Possibility of Hazardous Reactions | No dangerous reactions known |
| Conditions to avoid | No information available |
| Incompatible materials | No information available |
| Hazardous decomposition products | Toxic metal oxide smoke |

11. TOXICOLOGICAL INFORMATION

| | |
|--------------------------------------|--|
| Routes of exposure | Oral, Dermal, Inhalative |
| Symptoms related to exposure | Not determined |
| Chronic effects from exposure | Damage to fertility, birth defects, organ damage |
| Acute toxicity | Damage to fertility, birth defects, organ damage |
| Carcinogenic effects | Suspected of causing cancer |

12. ECOLOGICAL INFORMATION

| | |
|--------------------------------------|-------------------------------------|
| Ecotoxicity | Toxic to fish and aquatic organisms |
| Persistence and degradability | No information available |
| Bioaccumulative potential | No information available |
| Mobility in soil | No information available |
| Other adverse effects | No information available |

13. DISPOSAL CONSIDERATIONS

| | |
|---|--|
| Waste treatment methods | Do not dispose together with household garbage |
| Waste from residue/unused products | Dispose of in accordance with local regulations |
| Contaminated packaging | Take to approved waste handling/recycling center |
| Safe handling | See section 8 for more information |

14. TRANSPORTATION INFORMATION

| | |
|---------|---------------|
| DOT | Not regulated |
| ADR/RID | Not regulated |
| IMDG | Not regulated |
| IATA | Not regulated |

15. REGULATORY INFORMATION

Chemical Inventories Status

| | |
|-----------------------------|-----------|
| U.S.A. TSCA | Compliant |
| European Community (EINECS) | Compliant |
| Canada (DSL) | Compliant |
| Australia (AICS) | Compliant |
| Japan (IEC) | Compliant |
| Korea (KECI) | Compliant |
| Philippines (PICCS) | Compliant |
| China (SEPA/CICS) | Compliant |

16. OTHER INFORMATION

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DISCLAIMER

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgements of suitability of this information to ensure proper use and protect the health and safety of employees. The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind expressed or implied is made with respect to the information contained herein. The user of this product must decide what safety measures are necessary to safely use this product, either alone or in combination with other products, and determine its environmental regulatory compliance obligations under any applicable federal or state laws.

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