

Retro Glow

PREPARATION DATE: 02-15-05

SECTION 1 - IDENTIFICATION OF THE PRODUCT AND OF THE PRODUCERTrade name: **RETRO GLOW**Trade code: **RG-**

Manufactured for: Alsa Corporation
 2640 E. 37th Street
 Vernon, CA 90058
 323-581-5200

Emergency telephone number of the company and/or of an authorised advisory center:
 Infotrac Chemical Emergency Response – 800-535-5053 / 352-323-3500

C. I. NAME : PHOSPHORESCENT PIGMENT
 CAS NUMBER : PROPRIETARY
 CHEMICAL FAMILY : ZINC SULFIDE, COPPER DOPED AND DYED BENZOGUANAMINE-
 PHYSICAL FORM : POWDER

SECTION 2 - INGREDIENTS HAZARDOUS UNDER OSHA 29 CFR PART 1910.1200 APPENDIX A & B

COMPONENT NAME	CAS NUMBER	PEL	TLV	%
PHOSPHORESCENT PIGMENT*	PROPRIETARY	15 MG/M3	10 MG/M3	100

*READ & UNDERSTAND SECTIONS 3, 8 & 11 FOR MORE HEALTH & SAFETY INFORMATION.
 WEAR ALL PROTECTIVE EQUIPMENT AND CLOTHING DESCRIBED IN SECTION 8.

SECTION 3 - HAZARD IDENTIFICATION AND EMERGENCY OVERVIEW**HMIS RATINGS**

HEALTH	1
FLAMMABILITY	1
REACTIVITY	0
PROTECTION	F, N

EMERGENCY OVERVIEW:**POSSIBLE EXPOSURES:** EYES, SKIN, BREATHING DUSTS, ACCIDENTAL SWALLOWING**POSSIBLE HEALTH EFFECTS:**

EYE CONTACT: NOT EXPECTED TO IRRITATE BASED ON ANIMAL TOXICITY DATA (SEE SECTION 11),
 HOWEVER, OVEREXPOSURE TO PRODUCT DUSTS CAN POSSIBLY CAUSE EYE IRRITATION TO OCCUR. 1

SKIN CONTACT: NOT EXPECTED TO IRRITATE BASED ON ANIMAL TOXICITY DATA (SEE SECTION 11),
 HOWEVER, OVEREXPOSURE TO PRODUCT DUSTS CAN POSSIBLY CAUSE SKIN IRRITATION TO OCCUR. 1

BREATHING DUST: NO ANIMAL TOXICITY DATA IS CURRENTLY AVAILABLE ON THEEFFECTS OF BREATHING THIS MATERIAL,
 HOWEVER, OVEREXPOSURE TO PRODUCT DUSTS CAN POSSIBLY CAUSE IRRITATION OF THE LININGS OF THE NOSE, THROAT
 AND LUNGS TO OCCUR. 1

SWALLOWING: EXPECTED TO BE PRACTICALLY NON-TOXIC. 1

SENSITIZATION: NK**TARGET ORGANS:** POSSIBLY EYES, SKIN, NOSE, THROAT, LUNGS 1**CANCER INFORMATION:**

PRODUCT AND COMPONENTS NOT KNOWN TO US TO BE CARCINOGENS

NTP: NK

IARC: NK

OSHA: NR

PRECAUTIONS:

PROTECT YOURSELF FROM EITHER EXPECTED OR UNEXPECTED IRRITATION, OR ANY ALLERGIC REACTIONS. WORKERS SHOULD WEAR ALL PROPERLY SELECTED PROTECTIVE EQUIPMENT AND CLOTHING AS INSTRUCTED IN SECTION 8 OF THIS MSDS. WASH HANDS AND FACE AFTER HANDLING AND BEFORE EATING, DRINKING, SMOKING OR USING RESTROOM FACILITIES. AFTER EACH SHIFT, CLEAN ALL PROTECTIVE EQUIPMENT, WASH ALL WORK CLOTHES, AND SHOWER. READ SECTIONS 8 & 11, TOXICOLOGY INFORMATION.

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SECTION 4 - FIRST AID INSTRUCTIONS

UNUSUAL HAZARDS: IF MIXED WITH AIR IN SUFFICIENT AMOUNTS & PROPORTIONS, ORGANIC DUSTS CAN FORM FLAMMABLE OR EXPLOSIVE DUST/AIR MIXTURES. AS PRECAUTIONS, KEEP AREAS CLEAN AND AVOID DUST BUILD-UP. HAVE PLENTY OF GOOD VENTILATION. AVOID CREATING VERY DUSTY CONDITIONS. WHEN MIXING, POURING OR PROCESSING BULK AMOUNTS OF POWDERS GROUND ALL CONTAINERS AND AVOID STATIC CHARGES, SPARKS, SMOKING, OPEN FLAMES, OR OTHER POSSIBLE CAUSES OF FIRE OR EXPLOSION.

EYE CONTACT: IMMEDIATELY RINSE WITH PLENTY OF CLEAN FLOWING WATER FOR AT LEAST 20 MINUTES, HOLDING EYELIDS OPEN TO RINSE COMPLETELY. CALL A DOCTOR, AND GET MEDICAL HELP QUICKLY, AS A PRECAUTION.

SKIN CONTACT: REMOVE AFFECTED CLOTHING. WASH AFFECTED SKIN AREA WITH PLENTY OF SOAP AND WATER. RINSE WITH PLENTY OF WATER. WASH ALL WORK CLOTHES BEFORE WEARING AGAIN. IF ANY REDNESS, SWELLING, ITCHING, OR PAIN OF THE SKIN STARTS, SEE A DOCTOR QUICKLY, AS PRECAUTION.

BREATHING PRODUCT DUST: MOVE PERSON TO FRESH AIR. IF PERSON IS HAVING DIFFICULTY BREATHING, GIVE OXYGEN. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. GET EMERGENCY MEDICAL HELP QUICKLY. CALL 911 IF AVAILABLE IN YOUR AREA, OR OTHER MEDICAL EMERGENCY NUMBER.

SWALLOWING OF PRODUCT: IF SWALLOWED, GIVE PERSON SEVERAL GLASSES OF WATER AND FORCE VOMITING. NEVER FORCE ANY FLUIDS OR FORCE VOMITING IF THE PERSON IS UNCONSCIOUS, OR IS HAVING CONVULSIONS, OR HAS NO GAG REFLEX. CONTACT A DOCTOR QUICKLY TO GET MEDICAL HELP, CALL 911, OR OTHER MEDICAL EMERGENCY SERVICES AVAILABLE IN YOUR AREA.

SECTION 5 - FIRE FIGHTING INSTRUCTIONS

FLASH POINT : NA
TYPES OF EXTINGUISHERS : FOAM, CO2, DRY CHEMICAL
FIREFIGHTING DIRECTIONS : WEAR SELF-CONTAINED BREATHING APPARATUS TO PROTECT AGAINST POSSIBLY TOXIC FUMES. WEAR FULL FIRE-PROTECTIVE CLOTHING.
FIRE & EXPLOSION HAZARDS : HEAT CAN RELEASE TOXIC FUMES OF HYDROGEN SULFIDE GAS ON CONTACT WITH MOISTURE OR ACID. NO EXPLOSION HAZARD.

SECTION 6 - ACCIDENTAL SPILL OR RELEASE INSTRUCTIONS

WEAR A NIOSH APPROVED DUST RESPIRATOR, WITH ALL PROTECTIVE CLOTHING AND EQUIPMENT AS DESCRIBED IN SECTION 8 OF THIS MSDS. READ SECTION 8.

CONTAIN AND CLEAN UP SPILL IMMEDIATELY. SWEEP POWDERS CAREFULLY, USING AN ABSORBENT (SUCH AS SWEEPING COMPOUND) TO KEEP DOWN THE DUST IN THE AREA. SCOOP MATERIAL & ABSORBENT INTO DISPOSAL DRUM, SEAL AND LABEL.

RCRA STATUS: SEE REGULATORY INFORMATION, SECTION 15.

ENVIRONMENTAL PROTECTION: PREVENT FROM ENTERING FLOOR DRAINS OR SEWERS. DO NOT RELEASE TO SEWERS, STREAMS, RIVERS NOR TO ANY OTHER BODIES OF WATER WITHOUT PROPER PERMISSION FROM GOVERNMENT AUTHORITIES AT ALL LEVELS IN YOUR AREA. CHECK SECTION 13, "DISPOSAL CONSIDERATIONS / ENVIRONMENTAL PROTECTIONS PROCEDURES" FOR MORE INFORMATION.

SECTION 7 - HANDLING AND STORAGE

PROTECT PRODUCT FROM MOISTURE, STORE IN COOL, DRY PLACE UNDER LOW RELATIVE HUMIDITY, AWAY FROM EXCESSIVE HEAT. STORE IN ORIGINAL OR EQUIVALENT WATER-PROOF CONTAINERS. RESEAL CONTAINERS TIGHTLY AFTER EACH USE. KEEP OUT OF DIRECT SUNLIGHT. AVOID SCATTERING INTO THE AIR. MAINTAIN A SCHEDULE OF REGULAR HOUSEKEEPING TO INSURE CLEANLINESS IN THE WORK AREA.

SHELF LIFE: INDEFINITE WHEN STORED CAREFULLY AS INSTRUCTED ABOVE.

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SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION

NOTE: WHEN SELECTING PERSONAL PROTECTIVE EQUIPMENT AND CLOTHING, FOLLOW ALL OF THE MANUFACTURERS SPECIFICATIONS AND RECOMMENDATIONS THAT APPLY TO YOUR SPECIFIC OPERATION AND PROCESSING CONDITIONS. TAKE INTO CONSIDERATION ALL WORKERS CONDITONS AND ALL CHEMICALS TO BE HANDLED OR PROCESSED.

EYE PROTECTION: WEAR SPLASH-PROOF CHEMICAL SAFETY GOGGLES. CONTACT LENSES SHOULD NOT BE WORN WHEN WORKING WITH CHEMICALS.

SKIN PROTECTION: WEAR CHEMICALLY RESISTANT RUBBER GLOVES, SELECTED WITH YOUR SPECIFIC PROCESSING CONDITIONS AND CHEMICALS TO BE HANDLED IN MIND. WEAR COVERALLS AND BOOTS TO MINIMIZE SKIN CONTACT. AS PRECAUTIONS, WASH HANDS & FACE WITH MILD SOAP & WATER BEFORE EATING, DRINKING, SMOKING, OR USING RESTROOM. AFTER EACH SHIFT, CLEAN ALL PROTECTIVE EQUIPMENT, WASH WORK CLOTHES AND SHOWER.

LUNG, THROAT & NASAL PROTECTION: WEAR NIOSH APPROVED DUST RESPIRATOR FOR YOUR PARTICULAR OPERATION AND MATERIALS BEING HANDLED. CLEAN RESPIRATOR WITH SOAP AND WATER AFTER EACH SHIFT.

OTHER PROTECTION: EYE WASH FOUNTAINS & DRENCH SHOWERS SHOULD BE LOCATED WITHIN 100 FEET OR A 10 SECOND WALK OF THE WORK AREA PER ANSI Z358.1-1990

VENTILATION: LOCAL EXHAUST IS RECOMMENDED, MECHANICAL EXHAUST IS ACCEPTABLE

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

DESCRIPTION	: COLORED CRYSTALLINE POWDER; NO ODOR
MELTING POINT	: DISSOCIATES @ 1200 C
WATER SOLUBILITY	: INSOLUBLE
PH	: NE
SPECIFIC GRAVITY	: 4.06
VOC'S	: NA

SECTION 10 - STABILITY AND REACTIVITY

STABILITY	: STABLE
CONDITIONS TO AVOID	: CONTACT WITH ACIDS
HAZARDOUS POLYMERIZATION	: WILL NOT OCCUR
INCOMPATIBLE MATERIALS	: CONTACT WITH ACIDS
HAZARDOUS DECOMPOSITION PRODUCTS	: BURNING CAN PRODUCE HYDROGEN SULFIDE GAS AND OXIDES OF SULFUR AND ZINC.

SECTION 11 - TOXICOLOGY INFORMATION

ORAL LD50 (RAT) : > 16,000 MG / KG
DERMAL LD50 (RAT) : NE
INHALATION LC50 (RAT) : NE

EYE EFFECTS (RABBIT) : NON-IRRITANT 1
SKIN EFFECTS (RABBIT) : NON-IRRITANT 1
BREATHING EFFECTS: NE, TAKE PRECAUTIONS. 1

CHECK SECTION 3 FOR ANY OTHER OBSERVATIONS, EXPECTATION OR COMMENTS.

NOTE: ALTHOUGH THIS PRODUCT IS NOT AN IRRITANT BASED ON ANIMAL STUDIES, INDIVIDUALS CAN STILL BECOME SENSITIVE TO, OR REACT TO ANY CHEMICALS IN THEIR WORK AREAS. IT IS RECOMMENDED THAT ALL WORKERS WEAR ALL PROTECTIVE CLOTHING AND EQUIPMENT AS SHOWN IN SECTION 8 OF THIS MSDS. READ SECTOION 8.

GENERAL PRECAUTIONS: ALWAYS PRACTICE GOOD INDUSTRIAL HYGIENE, HANDLE WITH CARE, AVOID PERSONAL CONTACT. DO NOT GET INTO EYES OR ON SKIN, DO NOT BREATHE DUST OF PRDUCT, DO NOT SWALLOW. WASH HANDS WITH SOAP AND WATER, AND RINSE WELL AFTER HANDLING PRDUCT. SHOWER AFTER EACH SHIFT. WASH ALL WORK CLOTHING AND COMPLETELY CLEAN ALL PROTECITVE EQUIPMENT AFTER EACH SHIFT. READ SECTIONS 3 AND 8.

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MUTAGENICITY: NK

ADDITIONAL INFORMATION: CHECK SECTION 3

MEDICAL CONDITIONS MADE WORSE BY EXPOSURE: PERSONS WITH BREATHING AND LUNG PROBLEMS CAN BE AFFECTED BY BREATHING IN ANY TYPE OF DUSTY MATERIAL. PERSONS WITH ASTHMA, ALLERGIES, OR OTHER BREATHING-RELATED PROBLEMS SHOULD STAY AWAY FROM, NOT HANDLE, AND NOT BE EXPOSED TO ANY DUSTY PRODUCTS OR DUSTY CONDITIONS AS A PRECAUTIONARY MEASURE.

SECTION 12 - ECOLOGICAL DATA

BOD 5: NE
COD: NE
FISH TOXICITY: NE
SEED TOXICITY: NE
CWA TOXIC POLLUTANTS: NK
BIOLOGICAL ELIMINATION: NE

SECTION 13 - DISPOSAL CONSIDERATIONS/ENVIRONMENTAL PROTECTION PROCEDURES

DISPOSAL METHODS:

IT IS RECOMMENDED THAT YOU SELECT AN ALTERNATIVE BELOW ACCORDING TO THE FOLLOWING ORDER OF PREFERENCE, DEPENDING ON ENVIRONMENTAL IMPACT:

- 1) RECYCLE OR REWORK MATERIAL IF AT ALL POSSIBLE
- 2) INCINERATE MATERIAL AT AN APPROVED FACILITY
- 3) TREAT AT AN ACCEPTABLE WASTE TREATMENT FACILITY OR MUNICIPAL WASTE TREATMENT PLANT AFTER PROPER TESTING AND APPROVAL OF WASTE SAMPLES.

IF DISPOSED OF IN ITS ORIGINAL UNUSED FORM, THIS MATERIAL SHOULD BE TREATED, AND DISPOSED OF AT AN APPROVED SITE OR FACILITY, IN COMPLIANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL ENVIRONMENTAL REGULATIONS. YOU MUST CONTACT THE PROPER GOVERNMENT AGENCIES FOR ADDITIONAL DIRECTIONS. ALL WASTE MATERIAL AND WASTE WATER SHOULD BE DISPOSED OF CORRECTLY, UNDER ALL FEDERAL, STATE, CITY AND COUNTY LAWS.

RCRA STATUS: SEE SECTION 15, REGULATORY INFORMATION

DO NOT RELEASE ANY CHEMICALS, DYES OR OTHER COLOR SOLUTIONS INTO SEWERS, WATERWAYS OR SYSTEMS WITHOUT PROPER GOVERNMENT PERMISSION AT ALL LEVELS.

CONTAINER REUSE: AN "EMPTY" CONTAINER CAN CONTAIN PRODUCT RESIDUE, AND SHOULD NOT BE REUSED. IF NOT PROFESSIONALLY CLEANED & RECONDITIONED, CRUSHING OR OTHER MEANS IS RECOMMENDED TO PREVENT UNAUTHORIZED REUSE.

SECTION 14 - SHIPPING / TRANSPORT INFORMATION

DOT STATUS (HIGHWAY AND RAIL): NR

IATA STATUS (AIR): NR

SECTION 15 - REGULATORY INFORMATION

AICS (AUSTRALIA): NC

CAL. PROP. 65: TO THE BEST OF OUR PRESENT KNOWLEDGE, BASED ON INFORMATION AVAILABLE AT THE TIME OF THIS ENTRY, WE ARE NOT AWARE OF ANY CHEMICALS PRESENT IN THIS PRODUCT THAT ARE KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER OR REPRODUCTIVE TOXICITY.

CERCLA: CONTAINS ZINC SULFIDE, COPPER DOPED - FOR R.Q. SEE 40 CFR 302.4

CLEAN AIR ACT:

TITLE III-HAP'S : NA

TITLE V-VOC'S: NA

TITLE VI-ODC'S: NOT MANUFACTURED WITH NOR CONTAINING CLASS I OR II ODC'S.

CONEG-TYPICAL METALS PRESENT IN PPM:

CADMIUM NE

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CHROMIUM NE
LEAD NE
MERCURY NE
DSL (CANADA): NC
ECL (KOREA): NC
EINECS (EUROPE): NC
ENCS (JAPAN): NC
FDA STATUS: NL
OTHER TYPICAL DATA IN PPM: NK

RCRA: NOT HAZAROUS IN IT'S PURCHASED FORM, HOWEVER, UNDER RCRA, IT IS THE MATERIAL COTAINING THE PRODUCT OR DERIVED FROM THE PRDUCT IS A HAZARDOUS WASTE.

SERA 311/312: IMMEDIATE/ ACUTE HEALTH HAZARD : YES
 DELAYED / CHRONIC HEALTH HAZARD : NO
 FIRE HAZARD : NO
 SUDDEN RELEASE OF PRESSURE HAZARD : NO
 REACTIVITY HAZARD : NO

SARA 313: PHOSPHORESCENT PIGMENT (ZINC SULFIDE, COPPER DOPED AND DYED BENSO-GUANAMINE-FORMALDEHYDE RESIN) @ 100%

TSCA: COMPONENTS LISTED
USDA: NL
WHMIS: NC

SECTION 16 - OTHER INFORMATION

V-001100-08142000
ACRONIYM LIST

NA = NOT APPLICABLE TO THIS MATERIAL
NC = NOT CERTAIN, UNDETERMINIED
NE = NOT STABLISHED, NO TESTING IS PLANNED
NH = NOT HAZARDOUS UNDER CITED REGULATIONS
NK = NONE KNOWN
NL = NOT LISTED OR APPROVED UNDER THESE REGULATIONS
NR = NOT REGULATED OR REPORTABLE

NIOSH = NATIONAL INSTITUTE FOR OCCUPATIONAL SAFETY AND HEATH

THE INFORMATION AND RECOMMENDATIONS CONTAINED HEREIN ARE BASED UPON DATA BELIEVED TO BE CORRECT, HOWEVER, NO GUARANTEE OR WARRANTY OF ANY IND EXPRESSED OR IMPLIED, IS MADE WITH RESPECT TO THE INFORMATION CONTAINED HEREIN. THIS MATERIAL SEFETY DATA SHEET WAS PREPARED TO COMPLY WITH THE OSHA HAZARD COMMUNICATION STANDARD 29 CFR 1910.1200, AND SUPERSEDES ANDY PREVIOUS INFORMATION, PREVIOUSLY DATED SHEETS ARE INVALID AND UNAPPLICABLE.