

PHOTOGRAPHERS' FORMULARY

PHENIDONE EXTENDED RANGE DEVELOPER (POTA)

POTA is a very soft working phenidone-based film developer. With slow films, POTA is capable of recording 15 to 20 stops of exposure range. When used on fine grain, high contrast copy films, POTA produces negatives with near normal contrast and extremely fine grain. Enlargements of 20-30 times are possible.

CHEMICAL SAFETY

All chemicals are dangerous and must be treated with respect. None of the chemicals used in POTA need a special safety discussion. However please read the warning label on each package.

The user assumes all risks upon accepting these chemicals. IF FOR ANY REASON YOU DO NOT WISH TO ASSUME ALL RISKS, PLEASE RETURN THE CHEMICALS WITHIN THIRTY DAYS FOR A FULL REFUND.

MIXING THE WORKING SOLUTION

Mix the solution just prior to use as it has a short life. You will need a 1 liter bottle to mix the solution.

Chemical	Amount
Distilled Water (35° C/95° F)	500 ml
Sodium sulfite	30 g
Phenidone	1.5 g
Distilled cold water to make	1000 ml

Place the water in the container and add the sodium sulfite. Stir until the solid has dissolved. Add the phenidone and mix well. Add cold water to bring the final volume in the container up to 1000 ml. Finally, be sure to stir the solution to ensure it is mixed thoroughly before use.

LIFE OF THE SOLUTION

Use the developer as soon as it cools to 75° F. The mixed solution of developer has a shelf life of one hour.

USING THE DEVELOPER

Films will lose about one F-stop of emulsion speed. Therefore set your meter to 1/2 the rated ASA value of your film (for example, expose Plus X (ASA 125) at ASA 64.)

We recommend a development time of 12-16 minutes. Individual testing will be required to select the exact time for your materials and taste.

All solutions should be at 24° C/75° F.



PHOTOGRAPHERS' FORMULARY INC.

P.O. Box 950 • Condon MT 59826 • 406-754-2891 • FAX 406-754-2896
E-MAIL formulary@montana.com

PORT NUMBER: 703
DS NO: GC003068
EFFECTIVE DATE: 11/23/92

VAN WATERS & ROGERS INC.
MATERIAL SAFETY DATA SHEET

PAGE: 001
VERSION: 002

PRODUCT: SODIUM SULFITE

10-1340

ORDER NO: 141120
PROD NO: 503217

PHOTOGRAPHERS FORMULARY
C/O UNITED FRT. TERMINAL

KALISPELL, MT 59806

VAN WATERS & ROGERS INC., SUBSIDIARY OF UNIVAR (206)889-3400
100 CARILLON POINT, KIRKLAND, WA 98033

----- EMERGENCY ASSISTANCE -----

FOR EMERGENCY ASSISTANCE INVOLVING CHEMICALS CALL - CHEMTREC
(800)424-9300

----- FOR PRODUCT AND SALES INFORMATION -----

CONTACT YOUR LOCAL VAN WATERS & ROGERS BRANCH OFFICE AT
VW&R SPOKANE 509-534-0405 SPOKANE, WA

PRODUCT NAME:
SODIUM SULFITE

DS #: GC003068

GENERAL INFORMATION

TRADE NAME (COMMON NAME): SODIUM SULFITE, SULFTECH(TM) grade Sodium Sulfite
A.S. No. 7757-83-7
CHEMICAL NAME AND/OR SYNONYM: Sodium Sulfite
FORMULA: Na₂SO₃
MOLECULAR WEIGHT: 126.04
ADDRESS: GENERAL CHEMICAL CORPORATION
90 East Halsey Road
Parsippany, NJ 07054-0389
LOCAL CONTACT: Manager of Product Safety
LOCAL PHONE NUMBER: (201) 515-1840
CURRENT ISSUE DATE: July, 1990

FIRST AID MEASURES

EMERGENCY PHONE NUMBER: (800) 631-8050
EYES: Immediately flush with plenty of water, for at least 15 minutes. Get medical attention.
SKIN: Promptly wash with plenty of soap and water.
INHALATION: Remove to fresh air. If symptoms persist, get medical attention.

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INGESTION: If conscious, immediately give 2 to 4 glasses of water or milk and induce vomiting by touching finger to back of throat. Get immediate medical attention.

3. HAZARDS INFORMATION

HEALTH -

INHALATION: Inhalation of product dust or mist may irritate respiratory tract. Contact with acids liberates irritating and potentially fatal sulfur dioxide gas.

INGESTION: Ingestion may irritate gastrointestinal tract. Estimated to be moderately toxic. May cause severe allergic reaction in some asthmatics and sulfite sensitive individuals. Large doses may cause violent colic and diarrhea, circulatory disturbances, central nervous system depression and even death.--Reference (a).

SKIN: Dust or mist may cause skin irritation from prolonged contact. Solutions will irritate. See pH, Section F. Rabbit and guinea pig data available, Reference (b).

EYES: Dust or mist may irritate or burn eyes. Solutions will irritate or burn. See pH, Section F.

PERMISSIBLE CONCENTRATION: AIR: (SEE SECTION J)
None established for sodium sulfite.
OSHA/TWA for SO₂ = 2 ppm
OSHA/STEL for SO₂ = 5 ppm
BIOLOGICAL: None established.

UNUSUAL CHRONIC TOXICITY: See Section K.

FIRE AND EXPLOSION -

FLASH POINT: Not flammable.

AUTO IGNITION TEMPERATURE: NA

FLAMMABLE LIMITS IN AIR (% BY VOL.): LOWER - NA UPPER - NA

UNUSUAL FIRE AND EXPLOSION HAZARDS: See Hazardous Decomposition Products, Section G.

4. PRECAUTIONS/PROCEDURES

FIRE EXTINGUISHING AGENTS RECOMMENDED: NA

FIRE EXTINGUISHING AGENTS TO AVOID: NA

SPECIAL FIRE FIGHTING PRECAUTIONS: Wear NIOSH-approved self-contained breathing apparatus. Use water-spray to keep containers cool, and to knock down fumes.

VENTILATION: LOCAL EXHAUST if dusty or misty condition prevails.

LOCAL EXHAUST if there is release of sulfur dioxide gas, see Section G. Keep incompatible materials out of hoods, ducts, etc.

NORMAL HANDLING: Avoid contact with eyes, skin, clothing. Avoid breathing dust or mist. Use with adequate ventilation.

STORAGE: Store in a cool, dry area, away from acids or oxidizers.

Keep container closed. Protect from physical damage.

SPILL OR LEAK (ALWAYS WEAR PERSONAL PROTECTIVE EQUIPMENT - SECTION E):

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Promptly shovel up dry chemical into an empty container, and cover. Store as above. Cautiously spray residue with plenty of water. (See Section I for disposal methods.)
SPECIAL PRECAUTIONS/PROCEDURES/LABEL INSTRUCTIONS: SIGNAL WORD - WARNING!
Contact with acids releases irritating and potentially fatal sulfur dioxide gas. See drum-handling instructions on label. When dissolving, add water cautiously and with stirring.

PERSONAL PROTECTIVE EQUIPMENT

RESPIRATORY PROTECTION: If dusty or misty conditions prevail, use dust or mist respirator approved by NIOSH. If sulfur dioxide should be released (see Section G), use respiratory protection approved by NIOSH for this gas.--Reference (c).
EYES AND FACE: If exposed to dust or mist or solution, wear hard hat (or other head covering) and chemical safety goggles. Do not wear contact lenses.
HANDS, ARMS, AND BODY: Wear full work-clothing, including long-sleeved shirt and trousers for routine product-handling. Cotton gloves are usually adequate for dry product. For solutions, wear impervious gloves and apron. If contact is repeated or prolonged, wear full impervious clothing.
OTHER CLOTHING AND EQUIPMENT: Eyewash facility.

PHYSICAL DATA

MATERIAL IS (AT NORMAL CONDITIONS): SOLID
APPEARANCE AND ODOR: White granular crystals or powder. Odorless.
BOILING POINT: Decomposes 900 Degrees C
MELTING POINT: ND
SPECIFIC GRAVITY (H2O=1): 2.63
VAPOR DENSITY (AIR=1): NA
SOLUBILITY IN WATER (% by Weight): (Calculated as the anhydrous salt)
17% solution at 10 Degrees C
28% solution at 33.4 Degrees C
pH: 1% solution; pH=9.8 (approx.)
VAPOR PRESSURE (mm Hg at 20 Degrees C): NA
EVAPORATION RATE (Ether=1): NA (Butyl Acetate = 1): NA
VOLATILES BY VOLUME (At 20 Degrees C): NA

REACTIVITY DATA

STABILITY: STABLE
CONDITIONS TO AVOID: High temperature (before melting); yield sulfur dioxide gas and hazardous residue (details below).
INCOMPATIBILITY (MATERIALS TO AVOID): STRONG OXIDIZERS cause vigorous exothermic reactions.
ACIDS release sulfur dioxide gas (details below).

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HAZARDOUS DECOMPOSITION PRODUCTS: SULFUR DIOXIDE GAS: toxic and corrosive.
SODIUM SULFIDE RESIDUE: flammable, dangerous fire risk, strong irritant
to skin and tissue, incompatible with acids.
HAZARDOUS POLYMERIZATION: WILL NOT OCCUR
CONDITIONS TO AVOID: NA

H. HAZARDOUS INGREDIENTS (Mixtures Only)

MATERIAL OR COMPONENT/C.A.S. #: Not Applicable.

I. ENVIRONMENTAL

DEGRADABILITY/AQUATIC TOXICITY:

Aquatic Toxicity: 2600 ppm/24, 48 & 96 hr/mosquito fish/TLm/fresh water.
Biological Oxygen Demand (BOD): 0.12 lb/lb, instantaneous.--Reference (d).
OCTANOL/WATER PARTITION COEFFICIENT: NO
EPA HAZARDOUS SUBSTANCES (CLEAN WATER ACT SEC. 311): NO

IF SO REPORTABLE QUANTITY: -- (40 CFR 116-117)

WASTE DISPOSAL METHODS (DISPOSER MUST COMPLY WITH FEDERAL, STATE AND LOCAL
DISPOSAL OR DISCHARGE LAWS): Dissolve in water, using caution as solution
can get hot. Neutralize with acid and flush to sewer with plenty of water
if permitted by applicable disposal regulations. Good ventilation is
required during neutralization due to release of SO₂ gas. Oxidation to
sodium sulfate solution may be required, as for example, by adding a
slight excess of dilute hydrogen peroxide carefully and with stirring.
Neutralized waste may have to be disposed of by an approved contractor.
RCRA STATUS OF UNUSED MATERIAL IF DISCARDED: Not a "hazardous waste".
HAZARDOUS WASTE NUMBER: (IF APPLICABLE): NA (40 CFR 261)

J. REFERENCES

PERMISSIBLE CONCENTRATION REFERENCES:

None.

REGULATORY STANDARDS:

FDA regulations apply to the use of food grade material (21 CFR).

D.O.T. CLASSIFICATION: Not Regulated (49 CFR 173)

GENERAL:

(a) Monograph 139, "Sulfite Salts", Gosselin, R.E. et al., CLINICAL
TOXICOLOGY OF COMMERCIAL PRODUCTS, 4th Ed., 1976.

(b) NIOSH, REGISTRY OF TOXIC EFFECTS OF CHEMICAL SUBSTANCES, 1981-
82, P881 - 154478, No. WE215 00 00.

(c) NIOSH/OSHA "Pocket Guide to Chemical Hazards", DHHS (NIOSH)
Pub. No. 78-210, 1978, Gov't. Printing Office, Washington 20402.

(d) Coast Guard CHRIS system form SSF, "Sodium Sulfite", Oct. 1978.

K. ADDITIONAL INFORMATION

Sodium sulfite has been demonstrated to be mutagenic in microbial systems;

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However, it is not mutagenic in studies involving insects and is not considered to present a mutagenic threat to multicell organisms, (i.e. animals, humans).

This product is not for drug or food use unless so labeled. For food grade product, the following applies:

- 1) Effective July 9, 1986, the FDA has banned the use of "Sulfiting Agent" or "Sulfites" on fruits and vegetables intended to be served or sold raw to consumers.
- 2) Effective July 9, 1987, the FDA is requiring when a sulfite is present in a detectable amount in a finished food, regardless of whether it has been directly or indirectly added via one or more of the food ingredients, it must be declared on the label. The regulation defines a "detectable amount" of sulfite to be 10 ppm.
- 3) Sulfiting agents or sulfites are not to be used on foods or meats recognized as a source of Vitamin B1.

FOOTNOTE: ND = NOT DETERMINED NA = NOT APPLICABLE
* = PROPRIETARY - TRADE SECRET

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FOR ADDITIONAL INFORMATION

CONTACT: MSDS COORDINATOR VW&R SPOKANE
 DURING BUSINESS HOURS, PACIFIC TIME (206)889-3400

08/24/94 10:21 PRODUCT: 503217 CUST NO: 113365 ORDER NO: 141120

NOTICE

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ARE RESPONSIBLE TO VERIFY THIS DATA UNDER THEIR OWN OPERATING CONDITIONS TO
DETERMINE WHETHER THE PRODUCT IS SUITABLE FOR THEIR PARTICULAR PURPOSES AND THEY
ASSUME ALL RISKS OF THEIR USE, HANDLING, AND DISPOSAL OF THE PRODUCT, OR FROM
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THIS INFORMATION RELATES ONLY TO THE PRODUCT DESIGNATED HEREIN, AND DOES NOT
RELATE TO ITS USE IN COMBINATION WITH ANY OTHER MATERIAL OR IN ANY OTHER
PROCESS.

* * * E N D O F M S D S * * *



10-0870 2004
3-12-94
CHARKIT CHEMICAL CORPORATION

330 POST ROAD, DARIEN, CONNECTICUT 06820

TRANSPORTATION EMERGENCY
CALL CHEMTREC: 800-424-9300

MATERIAL SAFETY DATA SHEET

NON-TRANSPORTATION EMERGENCY
CALL CHARKIT: 203-655-3400
FAX: 203-655-8643

I. PRODUCT IDENTIFICATION:

CHEMICAL NAME> 1-PHENYL-3-PYRAZOLIDONE
PRODUCT NAME> PHENIDONE A
CHEMICAL FAMILY> NO DATA AVAILABLE
PRODUCT CODE> 398-66300
SYNONYMS> PHENIDONE A; PYRAZOLIDONE
CAS NUMBER> 92-43-3
FORMULA> C9 H10 N2 O

II. HAZARDOUS INGREDIENTS:

<u>INGREDIENT NAME</u>	<u>EXPOSURE LIMITS</u>	<u>CONCENTRATION (%)</u>
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NONE

OSHA PEL:
ACGIH TLV:

III. PHYSICAL PROPERTIES:

<u>PHYSICAL FORM></u>	POWDER
<u>COLOR></u>	WHITE TO PALE CREAM
<u>ODOR></u>	NO DATA AVAILABLE
<u>MOLECULAR WEIGHT></u>	NO DATA AVAILABLE
<u>pH></u>	NO DATA AVAILABLE
<u>BOILING POINT></u>	DECOMPOSES
<u>MELTING/FREEZING POINT></u>	121° C (250° F)
<u>VISCOSITY></u>	NO DATA AVAILABLE
<u>SOLUBILITY IN WATER></u>	5.9 gm/1 in water at 20° c
<u>SPECIFIC GRAVITY></u>	> 1.0
<u>BULK DENSITY></u>	NO DATA AVAILABLE
<u>VAPOR PRESSURE></u>	NEGLIGIBLE
<u>EVAPORATION RATE></u>	NEGLIGIBLE
<u>% VOLATILE BY VOLUME></u>	NO DATA AVAILABLE

IV. FIRE AND EXPLOSION DATA

<u>FLASH POINT></u>	218° C (425° F)
<u>TEST CUP METHOD></u>	OPEN CUP
<u>FLAMMABLE></u>	NO
<u>COMBUSTIBLE></u>	COMBUSTIBLE DUST ONLY
<u>UPPER EXPLOSIVE LIMIT></u>	NO DATA AVAILABLE
<u>LOWER EXPLOSIVE LIMIT></u>	NO DATA AVAILABLE
<u>AUTO-IGNITION TEMP></u>	395° C (745° F)
<u>EXTINGUISHING MEDIA></u>	ALL EXTINGUISHING MEDIA ARE SUITABLE
<u>SPECIAL FIRE-FIGHTING></u>	Wear self-contained breathing apparatus and full protective clothing.
<u>PROCEDURES</u>	
<u>UNUSUAL FIRE AND></u>	FINE DUST DISPERSED IN AIR IN SUFFICIENT CONCENTRATIONS AND IN
<u>EXPLOSION HAZARDS</u>	THE PRESENCE OF AN IGNITION SOURCE IS A POTENTIAL DUST
	EXPLOSION HAZARD.
	SEE DECOMPOSITION PRODUCTS

V. HUMAN HEALTH DATA

ROUTE(S) OF ENTRY> EYES, SKIN, INHALATION, INGESTION

HUMAN EFFECTS AND SYMPTIONS OF OVEREXPOSURE:

INHALATION> MAY CAUSE IRRITATION OF RESPIRATORY TRACT.

INGESTION> INGESTION OF LARGE DOSES MAY CAUSE GASTROINTESTINAL UPSET.
BASED ON ANIMAL STUDIES FOR ACUTE ORAL TOXICITY, SUBSTANCE
IS TOXIC.

SKIN CONTACT> MAY CAUSE MILD IRRITATION AND REDDENING.
LOW HAZARD FOR INDUSTRIAL USE.

EYE CONTACT> MAY CAUSE IRRITATION AND REDDENING.

CHRONIC EXPOSURE> PROLONGED SKIN EXPOSURE MAY CAUSE ALLERGIC SKIN REACTION
PROLONGED INHALATION/INGESTION MAY CAUSE ADVERSE EFFECTS

AGGRAVATION OF PRE-> NO DATA AVAILABLE
EXISTING CONDITONS

CARCINOGENICITY> NOT LISTED BY NTP, IARC OR REGULATED AS A CARCINOGEN BY OSHA.

VI. FIRST AID

INHALATION> REMOVE TO FRESH AIR. CALL A PHYSICIAN.

IF BREATHING IS DIFFICULT GIVE OXYGEN.

IF NOT BREATHING GIVE ARTIFICIAL RESPIRATION.

INGESTION> IF SWALLOWED CALL A PHYSICIAN IMMEDIATELY. INDUCE VOMITING
BY GIVING 2 GLASSES OF WATER AND STICKING FINGER DOWN THROAT
DO NOT GIVE ANYTHING BY MOUTH TO UNCONSCIOUS PERSON

SKIN CONTACT> IN CASE OF CONTACT WASH SKIN WITH SOAP AND WATER.

WASH CLOTHING BEFORE REUSING.

CALL A PHYSICIAN IF IRRITATION PERSISTS.

VI. FIRST AID (CONTINUED)

EYE CONTACT> IMMEDIATELY FLUSH EYES WITH RUNNING WATER FOR 15 MINUTES
CALL A PHYSICIAN

VII. EMPLOYEE PROTECTION RECOMMENDATIONS

EYE PROTECTION> USE CHEMICAL SAFETY GOGGLES.
DO NOT WEAR CONTACT LENS IF AIRBORNE DUST IS PRESENT.

SKIN PROTECTION> USE CHEMICALLY RESISTANT GLOVES AND CLOTHING.
WASH FACE AND HANDS BEFORE EATING OR DRINKING.

PERSONAL RESPIRATORS> USE A NIOSH/MSHA APPROVED DUST RESPIRATOR.

VENTILATION SYSTEM> USE LOCAL EXHAUST IF DUST CONCENTRATION EXCEEDS NUISANCE
EXPOSURE LIMIT OR IF WORKER DISCOMFORT EXISTS.

ADDITIONAL MEASURES> PROVIDE EMERGENCY SHOWERS AND EYE WASH STATIONS.
TRAIN IN THE SAFE USE AND HANDLING OF HAZARDOUS CHEMICALS.

VIII. REACTIVITY DATA:

STABILITY> STABLE UNDER ORDINARY CONDITIONS OF USE AND STORAGE.

CONDITIONS TO AVOID> NONE KNOWN

HAZARDOUS POLYMERIZATION> WILL NOT OCCUR

CONDITIONS TO AVOID> NONE KNOWN

INCOMPATIBILITIES> STRONG OXIDIZING AGENTS

DECOMPOSITION TEMPERATURE> NO DATA AVAILABLE

DECOMPOSITION PRODUCTS> CARBON MONOXIDE, CARBON DIOXIDE AND NITROGEN OXIDES MAY BE
PRODUCED WHEN HEATED TO DECOMPOSITION

IX. SPILL AND LEAK PROCEDURES:

<u>GENERAL SAFETY</u> >	REMOVE ALL SOURCES OF IGNITION; VENTILATE AREA. PROVIDE PROTECTION FROM INHALATION OF DUST OR FUMES. UTILIZE RECOMMENDED PROTECTIVE CLOTHING AND EQUIPMENT.
<u>SPILL OR LEAK RESPONSE</u> >	SWEEP UP SPILL/LEAK AND PLACE IN CONTAINERS. AVOID DISPERSING DUST INTO AIR. USE NON-SPARKING TOOLS.
<u>WASTE DISPOSAL</u> >	CHECK FEDERAL, STATE AND LOCAL ENVIRONMENTAL REGULATIONS. SMALL RESIDUE MAY BE FLUSHED TO SEWER WITH PLENTY OF WATER. WHAT CANNOT BE SAVED FOR RECOVERY MAY BE BURNED IN AN APPROVED INCINERATOR OR DISPOSED IN APPROVED RCRA WASTE FACILITY.

X. SPECIAL PRECAUTIONS AND STORAGE DATA:

<u>STORAGE TEMPERATURE</u> >	<u>MIN:</u> NO DATA AVAILABLE	<u>MAX:</u> NO DATA AVAILABLE
	<u>AMBIENT:</u> NO DATA AVAILABLE	
<u>SHELF LIFE</u> >	NO DATA AVAILABLE	
<u>SPECIAL SENSITIVITY</u> >	NO DATA AVAILABLE	
<u>HANDLING & STORAGE PRECAUTIONS</u> >	STORE IN A COOL, DRY, WELL-VENTILATED AREA AWAY FROM HEAT AND SOURCES OF IGNITION. KEEP CONTAINER TIGHTLY CLOSED. PROTECT CONTAINER FROM PHYSICAL DAMAGE. STORE AWAY FROM REACTIVE OR COMBUSTIBLE MATERIALS AND OUT OF DIRECT SUNLIGHT.	

XI. SHIPPING INFORMATION:

<u>D.O.T. SHIPPING NAME</u> >	CHEMICALS N.O.S.
<u>HAZARD CLASS</u> >	NONE
<u>U.N. NUMBER</u> >	NONE
<u>PACKING GROUP</u> >	NONE
<u>LABELS</u> >	NONE
<u>R.Q. ENTRY REQUIRED</u> >	NO

XII. ANIMAL TOXICITY DATA:

ACUTE TOXICITY:

<u>ORAL LD 50</u> >	200 mg/kg (1982 RTECS); INDEPENDENT STUDY = 475 mg/kg
<u>DERMAL LD 50</u> >	NO DATA AVAILABLE
<u>INHALATION LC 50</u> >	NO DATA AVAILABLE
<u>SKIN EFFECTS</u> >	NO DATA AVAILABLE
<u>SENSITIZATION</u> >	NO DATA AVAILABLE
<u>EYE EFFECTS</u> >	NO DATA AVAILABLE

OTHER TOXICITY:

<u>SUBCHRONIC TOXICITY</u> >	NO DATA AVAILABLE
<u>CHRONIC TOXICITY</u> >	NO DATA AVAILABLE
<u>AQUATIC TOXICITY</u> >	96 hr LC50 Minnow: 1-10 mg/l; Water Flea: 10mg/l
<u>OTHER TOXICITY DATA</u> >	Oxygen demand: COD 2.1 gm/gm; BOD 0.16 gm/gm

XIII. FEDERAL REGULATORY INFORMATION:

<u>OSHA STATUS</u> >	NOT HAZARDOUS
<u>TSCA STATUS</u> >	LISTED ON TSCA INVENTORY
<u>CERCLA RQ</u> >	NONE
<u>RCRA STATUS</u> >	NOT HAZARDOUS WASTE IN PURCHASED FORM.

SARA TITLE III:

<u>§304 EHS RQ</u> >	NOT APPLICABLE
<u>§302 EHS TPQ</u> >	NOT APPLICABLE
<u>§313 TOXIC CHEMICALS</u> >	NONE
<u>§311/312 HAZARD CATEGORIES</u> >	NONE

OTHER REGULATORY INFORMATION:

<u>WHMIS</u> >	NONE
<u>OSHA</u> >	BASED ON 1982 RTECS STUDY, MATERIAL IS TOXIC

OSHA: OCCUPATIONAL HEALTH AND SAFETY ACT; HAZARD STATUS UNDER OSHA HAZARD COMMUNICATION STANDARD 29.

TSCA: TOXIC SUBSTANCES CONTROL ACT; LISTING DOES NOT INDICATE HAZARD STATUS.

CERCLA SEC. 101: COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION AND LIABILITY ACT (SUPERFUND); RELEASES TO AIR, LAND OR WATER OF THESE HAZARDOUS SUBSTANCES WHICH EXCEED THE REPORTABLE QUANTITY (RQ) MUST BE REPORTED TO THE NATIONAL RESPONSE CENTER (800-424-8302); 40 CFR 372.65.

RCRA: RESOURCE CONSERVATION AND RECLAMATION ACT; COMMERCIAL CHEMICAL PRODUCT WASTES DESIGNATED AS ACUTE HAZARDOUS AND TOXIC; 40 CFR 261.33.

SARA SECTION 304 EHS RQ: REPORTABLE QUANTITY OF EXTREMELY HAZARDOUS SUBSTANCE, LISTED AT 40 CFR 355.

SARA SECTION 302 EHS TPQ: THRESHOLD PLANNING QUANTITY OF EXTREMELY HAZARDOUS SUBSTANCE.

SARA SECTION 313 CHEMICALS: TOXIC SUBSTANCES SUBJECT TO ANNUAL RELEASE REPORTING REQUIREMENTS LISTED AT 40 CFR 372.65.

SARA SECTION 311/312 CHEMICALS: HAZARD CATEGORIES FOR REPORTING REQUIREMENTS.

CHARKIT CHEMICAL CORPORATION

PHENIDONE A

398-66300

APPROVAL DATE:

MSDS PAGE:

6

11 Mar 1994

XIV. OTHER REGULATORY INFORMATION:

THE FOLLOWING CHEMICALS ARE SPECIFICALLY LISTED BY INDIVIDUAL STATES; OTHER PRODUCT SPECIFIC HEALTH AND SAFETY DATA IN OTHER SECTIONS OF THIS MSDS MAY ALSO BE APPLICABLE FOR STATE REQUIREMENTS. FOR DETAILS ON YOUR REGULATORY REQUIREMENTS YOU SHOULD CONTACT THE APPROPRIATE AGENCY IN YOUR STATE.

STATE CODE	COMMENTS:
<u>NJ4</u>	NEW JERSEY; INCLUDED IN 5 PREDOMINANT INGREDIENTS > 1%
<u>PA3</u>	PENNSYLVANIA; HAZARDOUS PRESENT AT 3% OR GREATER
<u>CA65</u>	CALIFORNIA PROPOSITION 65; TO OUR KNOWLEDGE THIS PRODUCT CONTAINS LEVELS OF LISTED SUBSTANCES WHICH CALIFORNIA HAS FOUND TO CAUSE CANCER, BIRTH DEFECTS OR OTHER REPRODUCTIVE EFFECTS
<u>MSL</u>	MASSACHUSETTS SUBSTANCE LIST (MSL); HAZARDOUS SUBSTANCES AND EXTRAORDINARILY HAZARDOUS SUBSTANCES ON THE MSL MUST BE IDENTIFIED WHEN PRESENT IN PRODUCTS

INGREDIENT NAME /CAS NUMBER	CONCENTRATION	STATE CODE
1-PHENYL-3-PYRAZOLIDONE 92-43-3	APPROXIMATELY 100%	NJ4

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