

Cray Valley USA, LLC

Material Safety Data Sheet

Product: KRASOL K-31
MSDS ID: S-001494

Revised Date: 01-17-2005

01. GENERAL INFORMATION

Cray Valley USA, LLC
Oaklands Corporate Center
468 Thomas Jones Way
Exton, Pennsylvania 19341

Emergency phone number:
800/424-9300 (CHEMTREC)

Product information:
610/363-4100

GENERIC NAME

DOT PROPER SHIPPING NAME
N/AP
DOT HAZARD CLASS
Not regulated

UN/NA NUMBER
N/AP

02. SUMMARY OF HAZARDS

CAUTION

PHYSICAL HAZARDS: None known

ACUTE HEALTH EFFECTS: May cause eye irritation
(SHORT-TERM) May cause respiratory tract irritation
Not expected to cause skin irritation
No data on skin absorption found
Slight ingestion hazard/aspiration hazard if
swallowed

CHRONIC HEALTH EFFECTS: No chronic health effects information is available
(LONG-TERM) for this product.

03. COMPONENTS

COMPONENT NAME	CAS NUMBER	% COMPOSITION (BY WT.)
Mineral Oil	8012-95-1	AP 100

04. PHYSICAL AND CHEMICAL DATA

BOILING POINT	pH
N/DA	N/DA
FREEZING POINT	DRY POINT
N/DA	N/DA
SPECIFIC GRAVITY (H2O=1 at 39.2F)	VOLATILE CHARACTERISTICS
AP 0.99 at 25C/77F	Negligible
VISCOSITY UNITS, TEMP.(Brookfield)	SOLUBILITY IN WATER
N/DA	Negligible

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VAPOR PRESSURE

N/DA

VAPOR SP GR (AIR=1 at 60 - 90F)

N/DA

STABILITY

Stable

HAZARDOUS POLYMERIZATION

Will not occur

APPEARANCE AND ODOR

Yellow oil with characteristic odor

CONDITIONS AND MATERIALS TO AVOID

Heat, sparks, open flames, other combustibles and ignition sources;
Oxidizing agents

HAZARDOUS DECOMPOSITION PRODUCTS

Acrid smoke-fumes/carbon monoxide/carbon dioxide/nitrogen oxides and perhaps other toxic vapors may be released during a fire involving this product.

05. OCCUPATIONAL EXPOSURE LIMITS

SUBSTANCE	SOURCE	TYPE	VALUE
Mineral Oil (Oil mist, mineral)	OSHA	PEL-TWA	5 mg/m3
	ACGIH	TLV-TWA	5 mg/m3
		TLV-STEL	10 mg/m3

06. FIRE AND EXPLOSION

FLASH POINT METHOD=(Estimated)
GT 200C/392F

AUTOIGNITION TEMP. METHOD=
N/DA

FLAMMABLE LIMITS (% VOLUME IN AIR)

LOWER: N/DA UPPER: N/DA

FIRE AND EXPLOSION HAZARDS

Not expected to be a fire/explosion hazard under normal conditions of use.

EXTINGUISHING MEDIA

Dry chemical
CO2
Foam
Use water spray/water fog for cooling

SPECIAL FIREFIGHTING PROCEDURES

Do not enter fire area without proper protection. See Section 5 - decomposition products possible. Fight fire from safe distance/protected location. Though not normally combustible, material will eventually burn if exposed to fire/fire may build enough pressure to rupture closed containers, spreading contents, which are harmful if inhaled, swallowed or splashed in the eyes or on the skin. See Section 8 for personal protection recommended. Notify authorities if liquid enters sewer/public waters.

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07. HEALTH HAZARDS

ROUTES OF EXPOSURE

INHALATION

No significant adverse health effects are expected to occur at standard conditions due to the low volatility of this material. However, aerosols, or vapors which may be generated at elevated processing temperatures, may result in respiratory tract irritation. Symptoms may include sore throat, coughing or shortness of breath. Prolonged or repeated exposure to vapors or aerosols may result in headache, nausea, drowsiness and weakness.

EYE CONTACT -- PRIMARY ROUTE

May cause moderate irritation with symptoms including burning sensation, tearing, redness or swelling.

SKIN ABSORPTION

No appropriate human or animal health effects data are known to exist.

SKIN IRRITATION -- PRIMARY ROUTE

Although no appropriate human or animal health effects data is known to exist, this material is not expected to be a skin irritant.

INGESTION

This material may be a slight health hazard if ingested in large quantities. May cause nausea, vomiting and diarrhea if ingested repeatedly or in large amounts.

Aspiration of this material may cause chemical pneumonia.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

No additional medical information found.

08. PROTECTIVE EQUIPMENT / CONTROL MEASURES

RESPIRATORY PROTECTION

If exposure can exceed the PEL/TLV, use only NIOSH/MSHA approved air-purifying or supplied air respirator operated in a positive pressure mode per the NIOSH/OSHA 1981 occupational health guidelines for chemical hazards.

EYE PROTECTION

Eye protection such as chemical splash goggles and/or face shield must be worn when possibility exists for eye contact due to splashing or spraying liquid, airborne particles, or vapor. Contact lenses should not be worn.

SKIN PROTECTION

Not expected to be a health hazard upon skin exposure. However, where use can result in skin contact, wear gloves and other protective clothing and practice good personal hygiene. Wash hands and other exposed areas with mild soap and water before eating, drinking, smoking and when leaving work.

ENGINEERING CONTROLS

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General room or local exhaust ventilation is usually required to meet exposure standard(s).

OTHER HYGIENIC PRACTICES

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

OTHER WORK PRACTICES

Use good personal hygiene practices. Wash hands before eating, drinking, smoking, or using toilet facilities. Promptly remove soiled clothing/wash thoroughly before reuse. Shower after work using plenty of soap and water.

09. EMERGENCY AND FIRST AID

INHALATION

If overcome by exposure, remove victim to fresh air immediately. Give oxygen or artificial respiration as needed. Obtain emergency medical attention. Prompt action is essential.

EYE CONTACT

In case of eye contact, immediately rinse with clean water for 20-30 minutes. Retract eyelids often. Obtain emergency medical attention.

SKIN CONTACT

Not expected to be a skin hazard. However, if skin contact occurs, wash skin with mild soap/water and remove contaminated clothing as needed. Seek medical attention irritation or other adverse effects occur.

INGESTION

If swallowed, give lukewarm water (pint) if victim completely conscious/alert. Do not induce vomiting/risk of damage to lungs exceeds poisoning risk. Obtain emergency medical attention.

EMERGENCY MEDICAL TREATMENT PROCEDURES

Treat symptomatically.

10. SPILL AND DISPOSAL

PRECAUTIONS IF MATERIAL IS SPILLED OR RELEASED

Slippery walking/spread granular cover. Impound/recover large land spill; soak up small spill. On water, material insoluble. Contain/minimize dispersion/collect. Report per regulatory requirements.

WASTE DISPOSAL METHODS

When discarded in its purchased form, this product is not a RCRA hazardous waste. However, it is the responsibility of the generator to determine at the time of disposal whether the product meets the criteria of a hazardous waste. Comply with all applicable federal, state and local regulations. Waste disposal options include landfilling solids at permitted sites. Use registered transporters.

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11. ADDITIONAL PRECAUTIONS

HANDLING AND STORAGE PROCEDURES

Store product indoors in a cool, dry, well-ventilated area away from direct sunlight. Store product at room temperature (between 60-90F). Store away from oxidizing agents and combustibles. Use personal protective equipment as described in Section 8 of this Material Safety Data Sheet when handling this material. Product's shelf life is one year after date of receipt.

DECONTAMINATION PROCEDURES

Follow standard plant procedures or supervisor's instructions for decontamination operations.

12. LABEL INFORMATION

USE STATEMENT

FOR INDUSTRIAL USE ONLY

SIGNAL WORD

CAUTION

HEALTH HAZARDS

MAY CAUSE EYE AND RESPIRATORY TRACT IRRITATION

MAY BE HARMFUL IF SWALLOWED

ASPIRATION HAZARD IF SWALLOWED--CAN ENTER LUNGS AND CAUSE DAMAGE

PRECAUTIONARY STATEMENTS

DO NOT HANDLE NEAR HEAT, SPARKS, OR OPEN FLAME.

AVOID CONTACT WITH EYES, SKIN AND CLOTHING.

AVOID BREATHING VAPORS/MISTS.

DO NOT TASTE OR SWALLOW.

USE ONLY WITH ADEQUATE VENTILATION/PERSONAL PROTECTION.

KEEP CONTAINER CLOSED WHEN NOT IN USE.

WASH THOROUGHLY AFTER HANDLING.

BEFORE USING PRODUCT, READ MATERIAL SAFETY DATA SHEET (MSDS).

13. SUPPLEMENT

NPCA - HMIS RATING

Health	1
Flammability	1
Reactivity	0
Personal protection	See Section 8 of MSDS

REGULATORY INFORMATION

TSCA STATUS

TSCA status: All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

CALIFORNIA PROPOSITION 65

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California Proposition 65 Information: this product does not contain any substances known to the state of California to cause cancer and/or reproductive harm.

INTERNATIONAL INVENTORY STATUS

Australia (AICS):	included on inventory
Canada (DSL):	included on inventory
China:	included on inventory
Europe (EINECS):	included on inventory
Japan (ENCS):	not included on inventory
Korea (ECL):	included on inventory
Philippines (PICCS):	included on inventory

*Note - qualifiers and codes used in this MSDS

EQ = Equal; AP = Approximately; LT = Less Than; GT = Greater Than;
TR = Trace; UK = Unknown; N/AP = Not Applicable; N/P = No Applicable
Information Found; N/DA = No Data Available

14. DISCLAIMERS

Some of the information presented and conclusions drawn herein are from sources other than direct test data on the product itself. The information in this MSDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable. This MSDS has been prepared in accordance with the requirements of the OSHA Hazard Communication Standard (29 CFR 1910.1200).