

MATERIAL SAFETY DATA SHEET

OCAL, Inc., (Div. Of THOMAS & BETTS CORPORATION)

400 Dunlap Drive - Pinto Island, Mobile, AL 36601

OCAL CATALOG NUMBER: OCAL-SPRAY GRAY

Page: 1 of 5

Revision: 1

Date Prepared: 08/10/2000

Document: MSDS0013

PRODUCT DESCRIPTION: CAN SPRAY-DARK GRAY

PRODUCT IDENTITY: RAABE 06494 040713 604

SECTION 1 PRODUCT IDENTIFICATION & EMERGENCY INFORMATION

PRODUCT NAME: OCAL-SPRAY GRAY

PRODUCT TRADE NAME: RAABE 06494-040713 604

GENERAL USE: FOR REPAIRS TO THE EXTERIOR INSULATION IN CORROSIVE ENVIRONMENTS

PRODUCT DESCRIPTION: AEROSOL TOUCH-UP - DARK GRAY INSULATION COATING MATERIAL

CONTACT ADDRESS:

OCAL, Inc. a Div. of THOMAS & BETTS CORPORATION

400 Dunlap Drive - Pinto Island, P.O. Box 1844, Mobile, AL 36633

EMERGENCY TELEPHONE NUMBER: (24 hours)

1-800-248-8047

THIS MATERIAL SAFETY DATA SHEET HAS BEEN PREPARED IN ACCORDANCE WITH THE OSHA HAZARD COMMUNICATION STANDARD (29CFR 1910.1200), THE SUPPLIER NOTIFICATION REQUIREMENTS OF SARA TITLE III, SECTION 313, AND OTHER APPLICABLE RIGHT-TO-KNOW REGULATION.

SECTION 2 - HAZARDOUS INGREDIENT SECTION

REF	HAZARDOUS INGREDIENTS	MAX %WT	CAS NUMBER	CARCINOGEN*
01	CARBON BLACK	0.3220	1333-86-4	I
02	N-BUTANE	6.00	106-97-8	
03	PROPANE	18.00	74-98-6	
04	ACETONE	37.00	67-64-1	
05	METHYL ETHYL KETONE	8.00	78-93-3	
06	GLYCOL ETHER PM ACETATE	6.00	108-65-6	
07	TOLUENE	14.00	108-88-3	

This product contains one or more reported carcinogens or suspected carcinogens, which are noted

*Carcinogens: O = OSHA; A = ACGIH; N = NTP; I = IARC

OCCUPATIONAL EXPOSURE LIMITS HAVE BEEN ESTABLISHED FOR THE FOLLOWING MATERIALS:

REF:	ACGIH		U.S. OSHA		TEMP	LEL
	TLV-TWA	TLV-STEL	PEL-TWA	PEL-STEL		
01	3.5 mg/M ³	NOT ESTAB	3.5 mg/M ³	NOT ESTAB		99.00
02	800 ppm	NOT ESTAB	800 ppm	NOT ESTAB	879.100 mm Hg	68F 1.80
03	1000 ppm	NOT ESTAB	1000 ppm	NOT ESTAB	5585.200 mm Hg	68F 2.20
04	750 ppm	1000 ppm	750 ppm	1000 ppm	185.000 mm Hg	68F 2.60
05	200 ppm	300 ppm	200 ppm	300 ppm	85.00 mm Hg	68F 1.80
06	NOT ESTAB	NOT ESTAB	NOT ESTAB	NOT ESTAB	3.700 mm Hg	68F 1.30
07	50 ppm	NOT ESTAB	50 ppm	NOT ESTAB	38.000 mm Hg	68F 1.40

[C-Ceiling Limit; S-Potential Skin Absorption; R- Respirable Dust] [NOT ESTAB- NOT ESTABLISHED - NOT APPLICABLE].

Consult local authorities for acceptable provincial values.

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SECTION 3- HEALTH INFORMATION & PROTECTION

HEALTH HAZARDS

Harmful if swallowed, or inhaled. Causes eye and skin irritation. Vapors irritating to eyes and respiratory tract. Liquid and vapors are extremely flammable. Vapors may cause flash fire or explosion. Aerosol contents under pressure extremely flammable.

PRIMARY ROUTE(S) OF ENTRY

INHALATION, EYE CONTACT, SKIN CONTACT, SKIN ABSORPTION, INGESTION

POTENTIAL HEALTH EFFECTS

EYE: Liquid may cause severe corneal injury if it comes in contact with the eyes.

SKIN: Repeated and prolonged contact with the skin may cause skin irritation and or allergic dermatitis.

INHALATION: Exposure to high concentrations of vapors may cause dizziness, breathing difficulty, headaches or respiratory irritation. Extremely high concentrations may cause drowsiness, staggering, confusion, unconsciousness, coma or death. Intentional misuse by deliberately concentrating and inhaling the contents of this product can be harmful or fatal.

INGESTION: Moderately toxic. May cause stomach discomfort, nausea, vomiting, diarrhea, and narcosis.

CHRONIC EFFECTS: Chronic overexposure to a component or components in this material has been found to cause the following effects in laboratory animals: Kidney damage, Eye damage, Lung damage, Liver damage, Spleen damage, Brain damage. Chronic overexposure to a component or components in this product has been suggested to cause liver damage in humans. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage. Repeated breathing or skin contact of methyl ethyl ketone may increase the potency of neurological toxins, such as hexane, when exposures occur at the same time. Product contains toluene, which may be harmful to the fetus based on animal studies. Repeated exposure to toluene has been associated with high frequency hearing loss in laboratory animals. The human consequences of this finding are uncertain. In April 1996, the International Agency for Research on Cancer (IARC) published monograph 65 which reclassifies Carbon Black into group 2B (possibly carcinogenic to humans).

FIRST AID MEASURES

EYE CONTACT: Immediately flush eyes with plenty of water. Get medical attention, if irritation persists.

SKIN CONTACT: Wash thoroughly with soap and water and seek medical attention. Remove contaminated clothing. Launder contaminated clothing before reuse.

INHALATION: For inhalation overexposure move person to fresh air. If breathing stops, apply artificial respiration and seek medical attention.

INGESTION: Since this product may contain materials which can cause lung damage if aspirated into the lungs, the decision whether to induce vomiting or not must be made by a physician after careful consideration of all material ingested.

NOTE TO PHYSICIAN: No additional information available.

SECTION 4 - FIRE or EXPLOSION HAZARDS

FLASH POINT: <25° F (TAGLIABUE CLOSED CUP)

EXPLOSION LEVEL:

FLAMMABILITY LIMITS:

LOWER EXPLOSIVE LIMITS: 1.3%

UPPER EXPLOSIVE LIMIT: 100.0%

LOWER: NA

HIGHER: NA

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EXTINGUISHING MEDIA: Dry Chemical, Carbon dioxide (CO₂), or Chemical Foam.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Contents under pressure. Do not use or store near sources of heat, sparks or open flame. Keep away from any source of heat such as sunlight, heater or stoves that could cause the container to burst. Do not puncture or incinerate, Do not crush or place in a garbage compactor. Do not store above 120 degrees F. Aerosol containers may explode when exposed to extreme heat. Product vapors are heavier than air and may travel a long distance to a source of ignition and flash back.

SPECIAL FIRE FIGHTING PROCEDURES: Full protective equipment including self-contained breathing apparatus to avoid inhalation of vapors should be used. Water spray should not be used except to keep down vapors or cool closed containers to prevent build-up of pressure. If water is used, fog nozzles are preferred.

SECTION 5 – SPILL CONTROL MEASURES

ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Remove all sources of ignition. Avoid heat, sparks, flames and anything, which could cause fire. Ventilate area of spill and adjacent low-lying areas. Avoid breathing solvent vapors. Remove with inert absorbent materials and non-sparking tools.

WASTE DISPOSAL METHOD: Waste material must be disposed of in accordance with federal, state, provincial, and local environmental control regulations. Empty containers should be recycled or disposed of through an approved waste management facility.

SECTION 6 – HANDLING, STORAGE and EXPOSURE CONTROL

HANDLING AND STORAGE

HANDLING PRECAUTIONS: Wash hands thoroughly after handling. Warning! This product contains a chemical or chemicals known to the State of California to cause birth defects or other reproductive harm.

STORAGE: Store in a cool dry area with ventilation suitable for storing materials shown in section 2. Keep away from heat, sparks and flame. Store in a cool place away from direct sunlight or any source of ignition. Do not store at temperatures above 120 degrees F.

EXPOSURE CONTROLS AND PERSONAL PROTECTION

VENTILATION REQUIREMENTS:

ENGINEERING CONTROLS: Provide general dilution or local exhaust ventilation in volume and pattern to keep the concentration of ingredients listed in section 2 below the lowest suggested exposure limits, the LEL below the stated limit.

PERSONAL PROTECTIVE EQUIPMENT FOR:

EYE PROTECTION: Chemical-type goggles with side shields or face shield recommended, when possibility exists for eye contact due to spraying liquid, airborne particles, or vapors.

SKIN PROTECTION: Chemical resistant plastic apron and gloves recommended for prolonged or repeated contact. Contact a manufacturer of protective clothing for appropriate chemical impervious equipment.

RESPIRATORY PROTECTION: If workplace exposure limits are exceeded for any components in Section 2 for hazardous components and exposure limits, a NIOSH/OSHA approved respirator with the appropriate chemical cartridges suitable for components listed is recommended. Read the respirator manufacturer's instructions and literature carefully to determine the type of airborne contaminants against which the respirator is effective, its limitations, and how it is to be properly fitted and used.

OTHER EQUIPMENT: Appropriate impervious clean clothing and shoes are recommended if prolonged or repeated contact is likely.

HYGIENIC PRACTICES: Wash hands before eating or smoking. Smoke in designated areas only.

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SECTION 7 - TYPICAL PHYSICAL AND CHEMICAL PROPERTIES

(FORMULA VALUE, NOT SALES SPECIFICATION)

VAPOR PRESSURE: 5585.20 mm Hg @ 68° F

VAPOR DENSITY: N/A

BOILING RANGE: Lower -1.0° F, Higher- 999.0° F

SPECIFIC GRAVITY: 0.741

FORMULA WEIGHT PER VOLUME: 6.1677 lbs./Gal.

VOC (Calculated): 4.769 lbs./Gal. Or 571.46 g/L

PERCENT VOLATILE BY WEIGHT: 89.2581

VISCOSITY: N/A

EVAPORATION RATE: 7.700 (n-Butyl acetate = 1)

ODOR: An odor characteristic of the chemical family and any solvents listed in Section 2.

SECTION 8 - STABILITY REACTIVITY DATA

STABILITY: This product is stable under normal storage conditions.

CONDITIONS TO AVOID: Avoid contact with heat, sparks, and open flame.

INCOMPATIBILITY: Strong oxidizing agents.

DECOMPOSITION PRODUCTS: Thermal decomposition may produce carbon dioxide, carbon monoxide and unidentifiable organic materials.

POLYMERIZATION: Will not occur under normal conditions.

SECTION 9 - TRANSPORTATION INFORMATION

US DEPARTMENT OF TRANSPORTATION (DOT) INFORMATION

DOMESTIC GROUND SHIPMENTS (Containers 1Qt. Or less): Paint Aerosols & Liquid Paint Products:

CONSUMER COMMODITY, ORM-D

DOMESTIC AIR SHIPMENTS (Containers 1Qt. Or less): Paint Aerosols & Liquid Paint Products:

CONSUMER COMMODITY, CLASS 9, ID 8000, MISCELLANEOUS

INTERNATIONAL AIR SHIPMENTS (Containers 1Qt. Or less): Paint Aerosols:

AEROSOLS, FLAMMABLE, N.O.S., CLASS 2.1, UN 1950, FLAMMABLE GAS (LABEL)

See 49 CFR 172.101, Hazardous Materials Table 1 for more information on shipping hazardous materials on land

See IATA Dangerous Goods Regulations for more details on shipping hazardous materials by air.

SECTION 10 - REGULATORY INFORMATION

SARA 313 INFORMATION:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40CFR Part 372

METHYL ETHYL KETONE

CAS # 78-93-3 Percent by weight: 8.1510

TOLUENE

CAS # 108-88-3 Percent by weight: 13.5020

FEDERAL REGULATIONS:

TOXIC SUBSTANCES CONTROL ACT- (TSCA): The chemical substances in this product are listed on the TSCA Section 8 inventory.

STATE REGULATIONS:

This product contains chemicals that are listed on California proposition 65 list. If the product is to be sold or used in California the following warning statement must appear on the label:

Warning! This product contains a chemical or chemicals known to the State of California to cause birth defects or other reproductive harm.

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NEW JERSEY RIGHT-TO-KNOW:

No non-hazardous ingredients are among the top five ingredients.

PENNSYLVANIA RIGHT-TO-KNOW:

No non-hazardous ingredients are present greater than 3%.

INTERNATIONAL REGULATIONS:

CANADA: The chemical substances in this product are listed on the Canadian Domestic Substance Lists.

SECTION 10 – OTHER INFORMATION

Hazardous Material Identification System (HMIS) and National Fire Protection Association (NFPA) ratings. Safe handling of this product requires that all of the information on the MSDS be evaluated for specific work environments.

HAZARD RATING SYSTEMS:

	HMIS	NFPA	KEY
HEALTH	2*	2	4 = SEVERE
FLAMMABILITY	4	4	3 = SERIOUS
REACTIVITY	0	0	2 = MODERATE
PERSONAL PROTECTION	G		1 = SLIGHT
			0 = MINIMAL
			* = CHRONIC HAZARD

Volatile organic compounds (VOCs): 4.671 lbs./gal

REVISION SUMMARY: NA

SUPERSEDES ISSUE DATE: 01/03/1995

LEGEND: NA – Not applicable, NE – Not Established, ND – Not Determined.

THIS IS THE END OF THE MSDS FOR: OCAL-SPRAY GRAY (RABBE-06494 040713 604).