

MATERIAL SAFETY DATA SHEET
AEROSOL BUMPER AND TRIM COATS
 Containing Methylene Chloride
 6/16/05

PRODUCTS COVERED: BUMPER COATS: AF-2 and TRIM COATS: AT-1, AT-2

SECTION I-MANUFACTURER

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SECTION II-PRODUCTS

<u>Stock No.</u>	<u>Product Name on Label</u>	<u>Numbers of Ingredients in Products</u>	<u>HMS RATING</u>			<u>Appearance and Odor</u>	<u>Solubility % in Water</u>	<u>Volatile Volume %</u>
			<u>H</u>	<u>F</u>	<u>R</u>			
AF-2	Bumper Coat, Satin Black	2,4,6,7,8,10	3*	4	0	Black liquid, strong	<1	96
AT-1	Trim Coat, Gloss Black	1,2,5,6,7,9,10	3*	4	0	Black liquid, strong	<1	96
AT-2	Trim Coat, Satin Black	1,2,3,5,6,7,8,10	3*	4	0	Black liquid, strong	<1	95

*Chronic health effects may occur from ingredient 6. See **NOTES** in **SECTION VI**.

SECTION III-HAZARDOUS INGREDIENTS

<u>Ingredients</u>	<u>CAS Number</u>	<u>Exposure Limits* in ppm (parts per million)</u>	<u>Flash Point</u>		<u>Vapor Pressure (mm Hg at 20°C)</u>	<u>Evap. Rate (n-Butyl Acetate=1)</u>	<u>Boiling Point</u>		<u>Flammable Limits in %</u>		<u>Autoignition Pt.</u>	
			<u>°F</u>	<u>°C</u>			<u>°F</u>	<u>°C</u>	<u>Lower</u>	<u>Upper</u>	<u>°F</u>	<u>°C</u>
1. n-Butyl Acetate	123-86-4	150 A, O	76	24	8	1.0	248	120	1.7	7.6	797	425
2. Carbon Black	1333-86-4	3.5 mg/m ³ **A, O	-NA-		NA	NA	-NA-		-NA-		-NA-	
3. Ethyl-3-ethoxypropionate	763-69-9	Not Established	136	58	1.1	0.12	320	163	1.05	Unk	Unknown	
4. Isobutane	75-28-5	1000 A, 800 NIOSH	-120	-84	>760	NA	11	-12	1.8	9.5	860	460
5. 1-Methoxy-2-Propanol Acetate	108-65-6	Not Established	116	47	3.7	0.34	295	146	Unknown		Unknown	
6. Methylene Chloride**	75-09-2	50 A, 25 O**	None		340	14.5	104	40	-NA-		1224	662
7. Methyl Ethyl Ketone	78-93-3	200 A, O	16	-9	85	4.6	174	79	1.8	10.0	759	404
8. Propane	74-98-6	1000 A, O	<-40		>6000	390	-45	-43	2.1	9.5	842	450
9. Propane/Butane Blend	68476-85-7	1000 A, O	<-40		>6000	390	-45	-43	2.1	9.5	842	450
10. Toluene	108-88-3	50 A Skin, 200 O	45	7	38	1.5	230	110	1.2	7.0	896	480

*A means ACGIH TLV, O means OSHA PEL. Other abbreviations: >means greater than, < means less than, NA means Not Applicable, NE means Not Established. Skin means vapor exposure to the skin must also be considered.

See **NOTES in **SEC. VI**.

SECTION IV-PHYSICAL DATA

Pressure of Can Contents: Maximum pressure less than 140 PSI Gauge at 130°F (54°C). **Evaporation Rate:** See SECTIONS II, III.

Vapor Density: Heavier than air. **Solubility in Water (Wt%):** See SECTION II. **Volatile Volume %:** See SECTION II. **Approximate**

Boiling Point: See SECTIONS II, III. **Product Density (water = 1):** Less than 1. Ingredients (except 2,6): Less than 1.

Appearance and Odor: See SECTION II.

SECTION V-FIRE AND EXPLOSION DATA

Flammability Class: Extremely Flammable Aerosol

Flash Point (Tag Closed Cup Method): See SECTIONS II, III.

Approximate Flammable Limits: See SECTIONS II, III.

Autoignition Temperature: See SECTIONS II, III.

Extinguishing Media: Foam, carbon dioxide, dry chemical

Special Fire Fighting Procedures: Full protective equipment, including self-contained breathing apparatus, is recommended because highly toxic gasses may be generated by combustion or thermal decomposition. Water from fog nozzles may be used to cool closed containers to prevent pressure build up (containers may leak or burst when heated).

Unusual Fire and Explosion Hazards: Vapors are heavier than air and may travel along the ground or be moved by ventilation and ignited by pilot lights, other flames, sparks, heaters, electric motors, smoking or other ignition sources at locations far from ma-

terial handling point. At elevated temperatures [130°F (54°C) or over] containers may vent, rupture or burst.

SECTION VI-HEALTH HAZARD DATA

PRIMARY ROUTES OF EXPOSURE: Inhalation, Skin contact, Eye contact

SIGNS AND SYMPTOMS OF EXPOSURE:

INHALATION:

Acute Exposure: Solvent vapors at concentrations above the TLV can irritate the respiratory tract (nose, throat, lungs) causing a burning sensation, runny nose, sore throat, coughing, chest discomfort (tightness). May cause central nervous system depression with the following progressive symptoms: headache, dizziness, nausea, staggering gait, confusion, unconsciousness, cessation of breathing and death.

Chronic Exposure: Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Symptoms include loss of memory, loss of intellectual ability and loss of coordination. **NOTE: 6. Methylene Chloride** has caused cancer in certain laboratory animals. See note under **CARCINOGENICITY**.

NOTE: INTENTIONAL MISUSE BY DELIBERATELY CONCENTRATING AND INHALING ANY SOLVENT VAPORS MAY BE HARMFUL OR FATAL!

SKIN CONTACT:

Acute Exposure: Repeated or prolonged skin contact with solvents can result in dry, defatted and cracked skin causing increased susceptibility to infection. Skin irritation may develop into contact dermatitis.

Chronic Exposure: Exposure to small amounts of solvent over long periods of time may cause some or all of the symptoms as in acute exposure to solvents.

EYE CONTACT:

Acute Exposure: Irritation of the eyes with itching, burning, redness and even permanent tissue damage if sprayed directly into the eyes and not flushed out immediately.

Chronic Exposure: Irritation of the eyes with itching, burning, redness.

INGESTION:

Acute Exposure: (Not likely unless deliberately sprayed into mouth.) Irritation to the mouth and, if swallowed, to the esophagus, stomach tissue and digestive tract. If swallowed, vomiting may cause breathing of liquid solvent resulting in chemical pneumonia.

Chronic Exposure: Unknown.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: None specifically known to Crest Industries, Inc. but it is possible that eye, respiratory tract, skin, liver, kidney, blood cell formation, nervous system and brain diseases may be aggravated by overexposure to the products on this MSDS.

CARCINOGENICITY: Products not listed by NTP, IARC or OSHA.

NOTE: 6. Methylene Chloride has caused cancer in certain laboratory animals. Risk to health depends on level and duration of exposure. Be careful to minimize breathing the solvent vapors from the products on this MSDS. Use products outdoors, if possible. If you must use indoors, open all windows and doors or use other means to assure fresh air movement during application and drying. If properly used, a respirator (NIOSH/MSHA TC23C or equivalent) may offer additional protection. Get professional advice for respirator use. **A dust mask does not protect against vapors!** Clean up rags and other waste immediately and allow solvent vapors to evaporate outdoors. **DO NOT USE IN BASEMENT OR OTHER UNVENTILATED AREA!**

SECTION VII-EMERGENCY AND FIRST AID PROCEDURES

INHALATION: Move to an area free from risk of further exposure. Administer oxygen or artificial respiration as needed. Obtain medical attention.

EYE CONTACT: Flush with clean, lukewarm water (low pressure) for at least 15 minutes while lifting eyelids. Refer person to physician for immediate attention.

SKIN CONTACT: Remove contaminated clothing immediately. Clean affected areas thoroughly with waterless skin cleaner and/or soap and water. Wash contaminated clothing thoroughly before reuse. Seek medical attention if irritation develops or persists.

INGESTION: DO NOT INDUCE VOMITING! Consult physician, hospital emergency room or poison control center immediately. Have list of ingredients available.

NOTES TO PHYSICIAN:

Inhalation: Treat for solvent vapor inhalation. Broncho-

dilators, expectorants and antitussives may help.

Eyes: May cause conjunctivitis. Stain for evidence of corneal injury.

Skin: Treat as any contact dermatitis.

Ingestion: Treat as for solvent ingestion. Inducing vomiting is contraindicated because of the possibility of chemical pneumonia caused by aspiration of solvent liquid.

SECTION VIII-EMPLOYEE PROTECTION RECOMMENDATIONS

EYE PROTECTION: Desirable during use of aerosol products. Wear safety glasses, splash goggles or face shield. Contact lenses should not be worn.

SKIN PROTECTION: Cover as much of the skin as possible with appropriate clothing. Wear solvent resistant gloves.

VENTILATION AND RESPIRATORY PROTECTION: If exhaust ventilation sufficient to keep the airborne concentrations of solvents and propellants below their respective TLV's is not possible, an OSHA/MSHA approved TC23C Paint Spray Respirator with Particulate Prefilter or TC19C Air Supplied Respirator must be used. A dust mask must be worn when sanding or grinding is done on the dry coatings. **A dust mask does not protect against vapors!** Observe OSHA regulations (29 CFR 1910.134) for respirator use.

NOTE: THERE MUST ALWAYS BE ENOUGH VENTILATION TO KEEP VAPOR CONCENTRATION BELOW THE LOWER FLAMMABLE LIMIT!

OTHER PROTECTIVE MEASURES: Eyewash stations should be available. Educate and train employees in safe use of products. Follow all label instructions.

SECTION IX-REACTIVITY DATA

STABILITY: Stable under normal room conditions.

HAZARDOUS POLYMERIZATION: Will not occur.

INCOMPATIBILITY (Materials to Avoid): Strong oxidizers.

HAZARDOUS DECOMPOSITION PRODUCTS: By high heat and fire: carbon dioxide, carbon monoxide, hydrocarbon vapors, smoke, hydrogen chloride, chlorine, phosgene and chlorinated hydrocarbon vapors.

SECTION X-SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Put on protective equipment including respiratory protection. Prevent further spillage. Evacuate nonessential personnel. Remove all sources of ignition and ventilate the area. Keep spill from reaching sewers and waterways. Cover the spill with sawdust, vermiculite, Fuller's Earth or other absorbent material. Collect material with non-sparking tools and put in a tightly sealed container. Remove container to a safe place.

WASTE DISPOSAL METHOD: Follow all federal, state and local environmental control regulations. Incineration of the liquid or dried material is the preferred method. **DO NOT PUT AEROSOL CONTAINERS IN A HOME TRASH COMPACTOR! DO NOT INCINERATE (OR BURN) AEROSOL CONTAINERS EVEN WHEN EMPTY!** Containers may become pressurized and burst even if they will not spray. Containers must be handled with care due to flammable, pressure producing and toxic residue.

RCRA STATUS: Since these products are ignitable and toxic, they are hazardous when discarded.

SECTION XI-SPECIAL PRECAUTIONS & STORAGE DATA**STORAGE TEMPERATURE****MINIMUM / MAXIMUM:** 50°F (10°C) / 120°F (49°C)**RECOMMENDED SHELF LIFE:** One year**PRECAUTIONS TO BE TAKEN IN HANDLING, STORAGE AND USE:** Keep away from heat, sparks and open flame. Do not store in

temperatures above 120°F (49°C) or in direct sunlight. Do not inhale vapors or spray mist. Avoid contact with skin and eyes. Wash hands after use and before eating, drinking, smoking or using the toilet. Employee education and training in the safe use and handling of these materials are required under the OSHA Hazard Communication Standard (29 CFR 1910.1200).

KEEP OUT OF THE REACH OF CHILDREN!**SECTION XII-FEDERAL EPA REGULATION COMPLIANCE INFORMATION****EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW ACT of 1986**

1) Section 313 Supplier Notification: Chemicals marked with an * in the following tables are subject to the Toxic Chemical Release Inventory Reporting Requirements using **EPA FORM R** (40 CFR Part 372).

2) Section 312: All the chemicals listed are subject to Emergency and Hazardous Chemical Inventory Forms and Community Right-to-Know Reporting Requirements: Tier I and Tier II Reports (40 CFR Part 370).

NOTE: This information must be included in all MSDSs that are copied and distributed for materials covered by this MSDS.

HAZARDOUS INGREDIENTS IN AEROSOL BUMPER AND TRIM COATS**APPROXIMATE PERCENTAGES BY WEIGHT**

Ingredients (Chemicals)	CAS Number	AF2	AT1	AT2
1. n-Butyl Acetate	123-86-4	—	1-5	1-5
2. Carbon Black	1333-86-4	0.4-2	0.4-2	0.4-2
3. Ethyl-3-ethoxypropionate	763-69-9	—	—	1-5
4. Isobutane	75-28-5	10-15	—	—
5. 1-Methoxy-2-Propanol Acetate (Glycol Ether PM Acetate)	108-65-6	—	0.6-3	0.6-3
* 6. Methylene Chloride	75-09-2	35-40	30-35	35-40
7. Methyl Ethyl Ketone	78-93-3	1-5	1-5	1-5
8. Propane	74-98-6	10-15	—	20-25
*9. Propane/Butane Blend	68476-85-7	—	25-30	—
10. Toluene	108-88-3	25-30	25-30	20-25
Physical Hazard-Fire		57	62	52
Physical Hazard-Pressure Release		28	28	28
Health Hazard-Acute		100	100	100
Health Hazard-Chronic		65	60	60
Physical Hazard-Reactivity		NOT APPLICABLE		
Aerosol Level		ALL ARE LEVEL 2		

SECTION XIII-VOLATILE ORGANIC COMPOUND (VOC) CONTENT ACCORDING TO THE FEDERAL EPA

Stock Numbers	AF2	AT1	AT2
Weight Percent	57.2	61.6	51.7
Pounds per Gallon	4.01	4.24	3.68
Grams per Liter	481	508	441
Pounds per Can	0.465	0.501	0.420

SECTION XIV-CALIFORNIA PROPOSITION 65 WARNINGS

According to the California Safe Drinking Water and Toxic Enforcement Act (PROPOSITION 65) "No person in the course of doing business shall knowingly and intentionally expose any individual to a chemical known to the State of California to cause cancer, birth defects or reproductive toxicity without first giving clear and reasonable warning to such individuals of such an exposure".

The following warning applies for these products that all contain Methylene Chloride and Toluene:

WARNING: This product contains chemicals known to the State of California to cause cancer, birth defects and other reproductive harm.

SECTION XV-OZONE DEPLETION IN THE UPPER ATMOSPHERE

None of the products on this MSDS contain Upper Atmosphere ozone depleting substances.

DISCLAIMER: The information contained in this MSDS is believed to be accurate and reliable as of the date indicated.

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