Safety Data Sheet (CFX-B)

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name : ChromeFX B
Product Code : CFX-B
Manufacturer Information : Alsa Refinish LLC,
1213 E. 58th Pl.
Los Angeles, CA 90001
Tel: 323-515-1100
Emergency Response : Infotrac 800-535-5053 // 352-323-3035

SECTION 2: HAZARDS IDENTIFICATION

OSHA/HCS Status : This material is considered hazardous by the OSHA Hazard Communication Standard (29CFR 1910 1200).
Classification of the substance or mixture : FLAMMABLE LIQUIDS – Category 4
CARCINOGENICITY – Category 2
GHS Label elements
Hazard pictograms :

Signal Word : Warning
Hazard statements : Combustible liquid. Suspected of causing cancer
Prevention : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves. Wear eye or face protection. Wear protective clothing. Keep away from flames and hot surfaces. - No smoking.
Response : IF exposed or concerned: Get medical attention
Storage : Store locked up. Store in Well-Ventilated place. Keep cool.
Disposal : Dispose of contents and container in accordance with all local, regional, national and international regulations.
Supplemental label elements : Emits toxins fumes when heated
Hazards not otherwise classified : None Known.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Mixture : Mixture
Product Name : ChromeFX B (Reducer)

Ingredient Name	%	CAS #
Hydrazine	<1.0	302-01-2
2,2'-iminodiethylamine	<1.0	111-40-0

SUB codes represent substances without registered CAS numbers.
Any concentration shown as a range is to protect confidentiality or is due to batch variation.
There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section. Occupational exposure limits, if available, are listed in Section 8.

SECTION 4: FIRST AID MEASURES

If ingestion, irritation, any type of overexposure or symptoms of overexposure occur during or persists after use of this product, contact a POISON CONTROL CENTER, EMERGENCY ROOM OR PHYSICIAN immediately; have Safety Data Sheet information available. Never give anything by mouth to an unconscious or convulsing person.

Description of necessary first air measures

Eye Contact	: Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.
Inhalation	: Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
Skin Contact	: Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.
Ingestion	: If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.

Most important symptom/effects, acute and delayed

Potential acute health effects

Eye Contact	: No known significant effects or critical hazards.
Inhalation	: No known significant effects or critical hazards.
Skin Contact	: No known significant effects or critical hazards.
Ingestion	: No known significant effects or critical hazards.

Over Exposure signs/symptoms

Eye Contact	: No specific data
Inhalation	: No specific data
Skin Contact	: No specific data
Ingestion	: No specific data

Indication of immediate medical attention and special treatment needed, if necessary

Notes to Physician	: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: No specific treatment
Protection of first aiders	: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth to mouth resuscitation.

See toxicological information (Section 11)

SECTION 5: FIRE FIGHTING MEASURES

Extinguishing Media	
Suitable Extinguishing media	: Use dry chemical, CO2, water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet
Specific hazards arising from chemical	: Combustible liquid. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard. This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous thermal decomposition products	: No specific data
Special protective actions for fire fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire fighters	: Fire fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with full face-piece operated in positive pressure mode.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For nonemergency personnel".
Environmental precautions	: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up

Small spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large Spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling	
Protective measures	: Put on appropriate personal protective equipment (see Section 8). Avoid exposure obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Empty containers retain product residue and can be hazardous. Do not reuse container.
Special precautions	: Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Vapors are heavier than air and may spread along floors. If this material is part of a multiple component system, read the Safety Data Sheet(s) for the other component or components before blending as the resulting mixture may have the hazards of all of its parts.
Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage including any incompatibilities	: Do not store above the following temperature: 35°C (95°F). Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Occupational exposure limits

Ingredient Name	Exposure Limits
Hydrazine	**ACGIH TLV (United States, 3/2015).** **Absorbed through skin.** TWA: 0.01 mg/m3 8 hours TWA: 0101 ppm 8 hours **OSHA PEL (United States, 2/2013).** **Absorbed through skin.** TWA: 1.3 mg/m3 8 hours TWA: 1 ppm 8 hours
2,2'-iminodiethylamine	**ACGIH TLV (United States 3/2015).** **Absorbed through skin.** TWA: 4.2 mg/m3 8 hours TWA: 1 ppm 8 hours

Recommended Monitoring procedures : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

Appropriate engineering controls : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Environmental exposure controls : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/Face : Safety glasses with side shields

Skin protection

Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical state	: Liquid
Color	: N/A
Odor	: N/A
Odor threshold	: N/A
pH	: N/A
Melting point	: N/A
Boiling point	: >37.78°C (>100°F)
Flash point	: Closed cup: 92.78°C (199°F)
Auto-ignition temperature	: N/A
Decomposition temperature	: N/A
Flammability (solid, gas)	: N/A
Lower and upper explosive (flammable) limits	: N/A
Evaporation rate	: 0.36 (butyl acetate = 1)
Vapor pressure	: 2.3 kPa (17.5 mm Hg) [room temperature]
Vapor density	: N/A
Relative density	: 1
Density (lbs / gal)	: 8.35
Solubility	: Insoluble in the following materials: Cold water
Partition coefficient n-octanol water	: N/A
Viscosity	: Kinematic (40°C (104°F)): >0.21 cm2/s (>21cSt)
Volatility	: 97% (v/v), 97.82% (w/w)
% Solid (w/w)	: 2.18

SECTION 10: STABILITY AND REACTIVITY

Reactivity	: No specific test data related to reactivity available for this product or its ingredients
Chemical stability	: The product is stable
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: When exposed to high temperatures may produce hazardous decomposition products. Refer to protective measures listed in Sections 7 and 8.
Incompatible materials	: Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids
Hazardous decomposition products	: Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen

SECTION 11: TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute Toxicity

Product/ingredient Name	Result	Species	Dose	Exposure
Hydrazine	LC50 Inhalation Gas	Rat	570 ppm	4 hours
	LC50 Inhalation Vapor	Rat	747 mg/m3	4 hours
	LD50 Dermal	Rabbit	0.091 g/kg	-
	LD50 Oral	Rat	0.06 g/kg	-
2,2'-iminodiethylamine	LD50 Dermal	Rabbit	1090 mg/kg	-
	LD50 Oral	Rat	1080 mg/kg	-

Conclusion/summary : There are no data available on the mixture itself.

Irritation/Corrosion

Conclusion/Summary

Skin	: There are no data available on the mixture itself.
Eyes	: There are no data available on the mixture itself.
Respiratory	: There are no data available on the mixture itself.

Sensitization

Conclusion/Summary

Skin	: There are no data available on the mixture itself.
Respiratory	: There are no data available on the mixture itself.

Mutagenicity

Conclusion/Summary : There are no data available on the mixture itself.

Carcinogenicity

Conclusion/Summary : There are no data available on the mixture itself.

Product/ingredient Name	OSHA	IARC	NTP
Hydrazine	-	2B	Reasonably anticipated to be a human carcinogen

Reproductive Toxicity
Conclusion/Summary : There are no data available on the mixture itself.

Teratogenicity
Conclusion/Summary : There are no data available on the mixture itself.

Specific target organ toxicity (single exposure)
Not Available

Specific target organ toxicity (repeated exposure)
Name: hydrazine
Category: 1

Aspiration Hazard
Not available

Information on likely routes of exposure
Potential acute health effects
Eye Contact : No known significant effects or critical hazards
Inhalation : No known significant effects or critical hazards
Skin Contact : No known significant effects or critical hazards
Ingestion : No known significant effects or critical hazards
Over-exposure signs/symptoms
Eye Contact : No specific data.
Inhalation : No specific data.
Skin Contact : No specific data.
Ingestion : No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure
Conclusion/Summary : There are no data available on the mixture itself. If splashed in the eyes, the liquid may cause irritation and reversible damage. Ingestion may cause nausea, diarrhea and vomiting. This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

Short Term exposure
Potential immediate effects : There are no data available on the mixture itself.
Potential delayed effects : There are no data available on the mixture itself.

Long term exposure
Potential immediate effects : There are no data available on the mixture itself.
Potential delayed effects : There are no data available on the mixture itself.

Potential Chronic health effects
General : No known significant effects or critical hazards
Carcinogenicity : Suspected of causing cancer, Risk of cancer depends on duration and level of exposure.

Mutagenicity	: No known significant effects or critical hazards.
Teratogenicity	: No known significant effects or critical hazards.
Developmental effects	: No known significant effects or critical hazards.
Fertility effects	: No known significant effects or critical hazards.

SECTION 12: ECOLOGICAL INFORMATION

Toxicity	: Not available
Persistence and degradability	: Not available

Bioaccumulative potential

Product/ingredient name	LogP	BCF	Potential
Hydrazine	-2.07	-	Low
2,2'-iminodiethylamine	-1.3	4.47	Low

Mobility in Soil

Soil/water partition coefficient (Koc) : Not available

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal Methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations.
Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees. Section 6. Accidental release measures.

SECTION 14: TRANSPORT INFORMATION

	DOT	IMDG	IATA
UN Number	UN1263	UN3082	UN3082
UN Proper Shipping Name	Paint Related Material	Environmentally hazardous substance, Liquid, N.O.S (hydrazine)	Environmentally hazardous substance, Liquid, N.O.S (hydrazine)
Transport hazard class	Combustible liquid	9	9
Packing group	III	III	III
Environmental hazards	No.	Yes.	Yes.
Marine pollutant substances	Not applicable	(hydrazine)	Not applicable
Product RQ (lbs)	116.39	Not applicable	Not applicable
RQ substances	(hydrazine)	Not applicable	Not applicable

Additional Information

DOT : Non-bulk packages (less than or equal to 119 gal) of combustible liquids are not regulated as hazardous materials in package sizes less than the product reportable quantity.

IMDG : This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8. The segregation group has been manually assigned based upon product analysis.

IATA : This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8.

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

SECTION 15: REGULATORY INFORMATION

United States

United States inventory (TSCA 8b) : All components are listed or exempted.

SARA 302-304

SARA 304 RQ : 116.4 lbs / 52.8 kg [14 gal / 52.9 L]

Composition/information on ingredients

Name	EHS	SARA 302 TPQ		SARA 304 RQ	
		(lbs)	(gallons)	(lbs)	(gallons)
Hydrazine	Yes.	1000	119.9	1	0.12

SARA 311-312

Classification : Fire hazard Delayed (chronic) health hazard

Composition/information on ingredients

Name	Fire Hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
Hydrazine 2,2'-iminodiethylamine	Yes No	No No	No No	Yes Yes	Yes No

SARA 313

Supplier Notification

Chemical Name	CAS Number	Concentration
Hydrazine	302-01-2	0.01 – 1

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

California Pop 65
WARNING: THIS PRODUCT CONTAINS A CHEMICAL KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER

SECTION 16: OTHER INFORMATION

Hazardous material information system (USA)
Health: 1 Flammability: 2 Physical hazards: 0

National fire protection association (USA)
Health: 1 Flammability: 2 Instability: 0

Disclaimer

The information contained in this data sheet is based on present scientific and technical knowledge. The purpose of this information is to draw attention to the health and safety aspects concerning the products supplied by PPG, and to recommend precautionary measures for the storage and handling of the products. No warranty or guarantee is given in respect of the properties of the products. No liability can be accepted for any failure to observe the precautionary measures described in this data sheet or for any misuse of the products.