



MATERIAL SAFETY DATA SHEET

1. COMPANY AND PRODUCT IDENTIFICATION

DUNCAN ENTERPRISES
5673 East Shields Avenue
Fresno, CA 93727
559-291-4444
559-291-9444 (Fax)

EMERGENCY TELEPHONE NUMBERS

Health Emergency: 559-291-4444 7:00 am – 3:30 pm
Pacific Standard Time
Spill and Off-Hour
Health Emergencies: 800-424-9300 U.S. and Canada
703-527-3887 Outside U.S. and
Canada (Collect)

Product Name: DUNCAN SS331 & SS331C CLEAR GLOSS, SS332 & SS332C CLEAR
**MATTE, SS333 TRANSLUCENT PEARL, SS334 & SS334C PORCELAIN
SEALER, SS339 & SS339C SUPER MATTE**

Product Category: Solvent - Based Aerosol Spray Sealers

2. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	CAS Number	ACGIH TWA PPM	OSHA PEL PPM	Other TLV PPM	Vapor Pressure mmHg at 20 C	SS 331 SS 332 % Wt.	SS 333 % Wt.	SS 334 SS 339 % Wt.
*Acetone	67-64-1	750	1000	--	186	12-16	40-42	30-33
Aromatic Hydrocarbon	64742-95-6	NE	NE	100	3	0-4		
Ethyl Acetate	141-78-6	400	400	--	69		5-7	18-20
Ethyl Alcohol	64-17-5	1000	1000	--	40			0-2
Ethyl 3-Ethoxy Propionate	763-69-9	NE	NE	50	.67		7-9	5-7
Isobutyl Acetate	110-19-0	150	150	--	12.8		14-16	14-16
*Methylene Chloride	75-09-2	50	500	--	340	10-12		
Methyl Ethyl Ketone	78-93-3	200	200	--	70			2-4
*Toluene	108-88-3	100	100	--	22	36-42		
*Xylene	1330-20-7	100	100	--	5.1			0-1
Propane-Isobutane Mixture	68476-86-8	NE	1000	--	--	23	19	19

***This chemical is subject to the reporting requirements of SARA Title III Section 313**

3. HAZARDS IDENTIFICATION

HMIS Hazard Ratings for Product

Health: 1* 0 = Minimal
Flammability: 4 1 = Slight
Reactivity: 0 2 = Moderate
Personal Protection: See Section 8 3 = Serious
4 = Severe
* = Chronic Effects

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3. HAZARDS IDENTIFICATION (Continued)

NFPA Hazard Ratings for Product

Health:	1	0 = Minimal
Flammability:	4	1 = Slight
Reactivity:	0	2 = Moderate
Other:	--	3 = Serious
		4 = Severe

Routes of Exposure

Exposure may be by inhalation and / or skin or eye contact, depending on conditions of use. To minimize exposure, follow recommendations for proper use, ventilation, and personal protective equipment.

Effects of Overexposure

Irritation of eyes, skin, and upper respiratory system. May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.

4. FIRST AID MEASURES

Eye contact:	Flush with water at least 15 minutes. Holding eyelids open. Get medical attention.
Skin contact:	Wash with soap and water. Wash clothing before re-use.
Inhalation:	Remove individual to fresh air. If breathing is difficult, administer oxygen. If breathing is stopped, give CPR and seek medical help.
Ingestion:	Do not induce vomiting (aspiration of material into lungs can cause chemical pneumonitis, which can be fatal.) Get medical attention.

5. FIRE FIGHTING MEASURES

Flash Point:	0° F (-18° C) Tag Closed Cup; Propellant = -100° F
Flammable Limits:	LEL 1.0 UEL N/A
Extinguishing Media:	Alcohol Foam, CO ₂ , Dry Chemical

Special Fire Fighting Procedures

Water spray may be ineffective. Water may be used to cool closed containers. If water is used, fog nozzles are preferable. Use self-contained breathing apparatus.

Unusual Fire And Explosion Hazards

Closed containers may explode and/or autoignite when exposed to extreme heat. Vapors are heavier than air and may travel along the ground or may be moved by ventilation. Remove all sources of ignition.

6. ACCIDENTAL RELEASE MEASURES

Steps to be Taken in Case Material is Released or Spilled

Remove all sources of ignition. Ventilate and remove with inert absorbent.

7. HANDLING AND STORAGE

Steps To Be Taken In Case Material Is Released Or Spilled

Eliminate all ignition sources, ventilate area, absorb liquid on absorbent material and transfer to a closed closed container.

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7. HANDLING AND STORAGE (Continued)

Precautions To Be Taken In Handling And Storing

Do not store in areas above 120°F, or in direct sunlight, or near heat or open flames. Do not puncture or incinerate.

Other Precautions

Contents under pressure. Do not puncture, incinerate, or expose to temperature above 120°F. Heat from sunlight, radiators, stoves, hot water, and other heat sources could cause container to burst. Do not take internally. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. **Keep out of reach of children.**

8. EXPOSURE CONTROL AND PERSONAL PROTECTION

Respiratory Protection

If spraying, do not inhale mist. Use respirator that is NIOSH/MSHA TC23C or equivalent. For organic vapors if TLV's are exceeded.

Ventilation

Local Exhaust:	Recommended
Mechanical (general ventilation):	Recommended when spraying
Special:	Use respirator when spraying
Protective Gloves:	Chemical resistant (neoprene)
Eye Protection:	Safety glasses

Other Protective Clothing Or Equipment

Solvent-resistant boots, apron, headgear and/or face shield should be worn where splashing is possible.

Work/Hygienic Practices

Wear protective clothing that is removed before eating, drinking, smoking, or leaving work. Wash thoroughly, immediately after spraying. Good hygiene practices should be followed..

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odor:	Typical solvent paint
Specific Gravity (Water=1):	< 1
Bulk Density:	7.0 – 8.0 lbs. / gal.
Boiling Point:	133 - 331° F
Melting Point:	Estimated minimum 1500° F
Vapor Density (AIR=1):	> 1
Vapor Pressure:	Not known
Water Solubility, %:	Slight to moderate
Percent Volatiles by Volume:	90
Freezing Point:	N/A
pH:	N/A
Evaporation Rate (Butyl Acetate=1):	> 1

10. STABILITY AND REACTIVITY

Stability:	Stable
Conditions To Avoid:	Heat, sparks and open flame
Incompatibility:	Strong oxidizing agents, heat, alkalies, hot surfaces and reactive metals

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10. STABILITY AND REACTIVITY (Continued)

Hazardous Decomposition or Byproducts: May form toxic materials, carbon dioxide/carbon monoxide, various hydrocarbons, nitrogen compounds, etc., when burned

Hazardous Polymerization: Will not occur

11. TOXICOLOGICAL INFORMATION

Routes Of Entry

Inhalation: yes **Skin:** yes **Ingestion:** no **Eyes:** yes

Acute (short-term) Health Hazards

Inhalation: Excessive inhalation of vapors can cause nasal and respiratory irritation, dizziness, weakness, fatigue, nausea, headache, possible unconsciousness and even asphyxiation. Methylene chloride has caused loss of consciousness and death as low as 10,000ppm and causes numbness in arms and legs plus rapid heartbeat above 7,000 ppm.

Eye Contact: Can cause severe irritation, redness, tearing, blurred vision. Contact lenses should not be worn.

Ingestion: Can cause gastrointestinal irritation, nausea, vomiting, diarrhea.

Skin Contact: Methylene chloride is painful and irritating if confined to skin by gloves, clothing, etc.

Chronic (long-term) Health Hazards

None known for product(s) in Section 1. Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage, severe overexposure in laboratory animals has also caused liver abnormalities and damage to kidneys, lungs, and spleen. Deliberately concentrating and inhaling the contents may be harmful or fatal.

Carcinogenicity **NTP:** yes **IARC Monographs:** yes

OSHA Regulated? no

Signs And Symptoms of Exposure

See Health Hazards.

Medical Conditions Generally Aggravated by Exposure

Can cause allergic respiratory and/or skin reaction

12. ECOLOGICAL INFORMATION

No data available

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers. Do not incinerate. Depressurize container. Dispose of in accordance with Federal, State, and Local regulations regarding pollution.

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14. TRANSPORT INFORMATION

U.S. Department of Transportation Information

DOT Shipping Name: Consumer Commodity ORM-D
DOT Hazard Class: Paint 149980 Sub. 2.1

U.N. Number: 1950

15. REGULATORY INFORMATION

California Proposition 65

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

TSCA Certification

All chemicals in this product are listed, or are exempt from listing, on the TSCA inventory.



Products bearing the Caution Label are certified to be properly labeled in a program of toxicological evaluation by a nationally recognized toxicologist. The products are certified by the toxicologist to be labeled in accordance with the chronic hazard labeling standard ASTM D-4236.

16. OTHER INFORMATION

Table of Abbreviations

ACGIH	American Conference of Governmental Industrial Hygienists
AICS	Aboriginal Independent Community Schools
ANSI	American National Standards Institute
ASTM	American Society for Testing Materials
°C	Degrees Centigrade
CAS	Chemical Abstract Service
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act
CFR	Code of Federal Regulations
CPR	Controlled Products Regulations
DOT	Department of Transportation
DSL	Domestic Substances List
ECL	Education Counseling Service
EINECS	European Inventory of Existing Commercial Chemical Substances
ENCS	Existing and New Chemical Substances
EPA	Environmental Protection Agency
°F	Degrees Fahrenheit
FDA	Food & Drug Administration
Hg	Mercury
HMIS	Hazardous Materials Identification System
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
ICAO	International Civil Aviation Organization
IMO	International Maritime Organization
LD	Lethal Dose
mg / kg	Milligram per kilogram

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16. OTHER INFORMATION (Continued)

Table of Abbreviations (Continued)

MITI	Ministry of International Trade and Industry
mm	Millimeter
MSDS	Material Safety Data Sheet
MSHA	Mine Safety and Health Administration
N / A	Not Applicable
NFPA	National Fire Protection Association
NIOSH	National Institute for Occupational Safety and Health
NTP	National Toxicology Program
OSHA	Occupational Safety and Health Administration
ppm	Parts per million
SARA	Superfund Amendment and Reauthorization Act
STEL	Short-Term Exposure Limit
TDG	Transport Dangerous Goods
TSCA	Toxic Substances Control Act
TWA	Time - Weighted Average
U.N.	United Nations
WHMIS	Workplace Hazardous Materials Information System
>	Greater Than
<	Less Than

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Disclaimer

The information given and the recommendations made herein apply to our product(s) alone and not combined with any other product(s). Such are based on our research and on data from other reliable sources and are believed to be accurate. No guarantee of accuracy is made. It is the purchaser's responsibility before using any product to verify this data under their own operating conditions and to determine whether the product is suitable for their purposes.