

30294-1001



Safety Data Sheet

1. COMPANY AND PRODUCT IDENTIFICATION

Duncan Enterprises
 5673 East Shields Avenue
 Fresno, CA 93727
 559-291-4444
 559-291-9444 (Fax)
 www.duncan.com


EMERGENCY TELEPHONE NUMBERS

Health Emergencies:
 559-291-4444 7:00 am – 3:30 pm Pacific Std. 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 OA901 - Essence
Product Use/Description: Diluent
Restrictions on use: None known.

2. HAZARDS IDENTIFICATION

Classification:	Flam. Liq. 3 – H226 Muta. 1B – H340 Car. 1B – H350 Asp. Tox. 1 – H304 Aquatic Acute 1 – H400 Aquatic Chronic 1 – H410 Acute Tox. 4 – H302 Skin Irrit. 2 – H315 Eye Irrit. 2A – H319 Skin Sens. 1 – H317 STOT SE 3 – H335
Hazard Statement:	H226 –Flammable liquid and vapor. H302 –Harmful if swallowed. H315 –Causes skin irritation. H319 –Causes serious eye irritation. H317 –May cause an allergic skin reaction. H340 –May cause genetic defects. H350 –May cause cancer. H335 –May cause respiratory irritation. H304 –May be fatal if swallowed and enters airways. H400 –Very toxic to aquatic life. H410 –Very toxic to aquatic life with long lasting effects.
Other Hazards:	No data.
Signal Word:	Danger
Precautionary Statement:	P210 – Keep away from heat/spark/open flames/hot surfaces. – No Smoking. P241 – Use explosion-proof electrical/ventilating/lighting/equipment. P261 –Avoid breathing dust fume/gas/mist/vapors/spray. P280 –Wear protective gloves/eye protection/face protection. P240 –Ground/bond container and receiving equipment. P242 –Use only non-sparking tools. P273 –Avoid release to the environment. P243 –Take precautionary measures against static discharge. P264 –Wash thoroughly after handling. P270 –Do not eat, drink or smoke when using this product. P271 –Use only outdoors or in a well-ventilated area.

	<p>P272 – Contaminated work clothing must not be allowed out of the workplace.</p> <p>P201 –Obtain special instructions before use.</p> <p>P202 –Do not handle until all safety precautions have been read and understood.</p> <p>P301+P310 –If swallowed: Immediately call a poison center or doctor.</p> <p>P303+P361+P353 –IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.</p> <p>P305+P351+P338 –If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.</p> <p>P321 –Specific treatment (see on this label).</p> <p>P304+P340 – IF INHALED: Seek fresh air and keep at rest in a position comfortable for breathing.</p> <p>P363 –Wash contaminated clothing before reuse.</p> <p>P308+P313 –IF exposed or concerned: Get medical advice/attention.</p> <p>P333+P313 –If skin irritation or rash occurs: Get medical advice/attention.</p> <p>P337+P313 –If eye irritation persists: Get medical advice/attention.</p> <p>P330 –Rinse mouth.</p> <p>P331 –Do NOT induce vomiting.</p> <p>P370+P378 –IN case of fire: Use for extinction: CO₂, powder or water spray.</p> <p>P391 –Collect spillage</p> <p>P362+P364 –Take off contaminated clothing and wash it before reuse.</p> <p>P405 –Store locked up.</p> <p>P403+P233 –Store in a well-ventilated place. Keep container tightly closed.</p> <p>P403+P235 –Store in well-ventilated place. Keep cool.</p> <p>P501 –Dispose of contents/container in accordance with local/regional/national/international regulations.</p>
Pictogram(s) by GHS:	 <p style="text-align: center;">GHS02 GHS08 GHS09 GHS07</p>

3. COMPOSITION / INFORMATION ON INGREDIENTS

Detailed formulation is submitted by the client and it is proprietary information.

Products are made by physical manipulation and chemical reaction from the ingredients. These ingredient chemicals may not exist as its original formula in final products. None of these ingredients are hazardous substances.

Reportable ingredients (if applicable):

<u>Substance/Composition:</u>	<u>CAS Number:</u>	<u>Percentage/Range:</u>
1,2-dichlorobenzene	95-50-1	25-50%
Cyclohexanone	108-94-1	10-<25%
Stoddard solvent	8052-41-3	10-<25%
Bornan-2-one	76-22-2	10-<20%
Lavendar oil	84776-65-8	5-<10%
Cyclohexanol	108-93-0	0.5-<1%

4. FIRST AID MEASURES

General Advice:	Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after accident.
On Inhalation:	If inhaled, seek fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Supply fresh air and be sure to call for a doctor.
On Skin Contact:	Remove contaminated clothing and wash with soap and water. Wash or clean clothing before reuse.
On Eye Contact:	Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
On Ingestion:	Immediately call a doctor.
Acute/Delayed Symptoms:	No further relevant information available.
Medical Advice:	No further relevant information available.

5. FIRE FIGHTING MEASURES

Extinguishing Media	
Suitable extinguishing media:	CO ₂ , extinguishing powder. Do not use water.
Unsuitable extinguishing media:	Water, water with full jet
Protection of Firefighters	
Specific hazards arising from the chemical:	No further relevant information available.
Protective equipment for firefighters:	Wear full firefighting gear and SCBA
Special precautions for fire fighters:	No further relevant information available.
Will hazardous combustion occur?	Will not occur.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Wear protective equipment. Keep unprotected persons away.
Environmental Precautions:	Do not allow product to reach sewage systems or any water course. Inform respective authorities in case of seepage into water course or sewage system. Do not allow to enter sewers/surface or ground water.
Methods for Cleaning Up:	Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose of contaminated material as waste according to section 13 of this SDS. Ensure adequate ventilation. Do not flush with water or aqueous cleansing agents.
Emergency Procedures:	Wear protective equipment and keep unprotected personnel away.
Recommended Personal Protective Equipment:	See section 8 of this SDS.

7. HANDLING AND STORAGE

Safe Storage:	Keep receptacle tightly sealed.
Safe Handling:	Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care. Prevent formation of aerosols.
Known Incompatibilities:	Sources of ignition, heat, electrostatic charges.

8. EXPOSURE CONTROL AND PERSONAL PROTECTION

Occupational Exposure Limits: The application of this product requires well ventilated firing kilns and efficient ventilation of working areas.

Chemical Name	ACGIH TLV	OSHA PEL
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1,2-dichlorobenzene	Short-term value: 301 mg/m ³ , 50 ppm Long-term value: 150 mg/m ³ , 25 ppm	Ceiling limit value: 300mg/m ³ , 50 ppm
Cyclohexanone	Long-term value: 50 mg/m ³ , 20 ppm	Long-term value: 200mg/m ³ , 50 ppm
Stoddard solvent	Long-term value: 525 mg/m ³ , 100 ppm	Long-term value: 2900mg/m ³ , 500 ppm
Cyclohexanol	Long-term value: 206 mg/m ³ , 50 ppm	Long-term value: 20mg/m ³ , 50 ppm

Appropriate Engineering Controls: See PPE below.

Individual Protection measures, such as PPE (Personal Protective Equipment):

Personal Protection Equipment:	
Respiratory Protection:	No required.
Eye Protection:	Tightly sealed goggles.
Hand Protection:	Protective gloves; nitrile rubber, NBR, chemical resistant.
Skin Protection:	Avoid contact with skin.
Thermal Protection:	No data.
General Safety and Hygiene Measures:	Keep away from food and beverages. Immediately remove all spoiled and contaminated clothing. Wash hands before breaks and at the end of work. Store protective clothing separately.
Further Information:	The lists that were valid during the creation were used as basis.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State/Appearance:	Fluid.
Color:	According to product specification.
Odor:	Characteristic.
Odor Threshold:	Not determined.
pH:	Neutral
Boiling Point/Range:	153°C (307°F)
Melting Point/Range:	Not determined.
Flash Point:	40°C (104°F(ISO 3679)
Evaporation Rate:	Not determined.
Vapor Density:	Not determined.
Solubility(ies):	Not miscible or difficult to mix.
Vapor Pressure at 20°C (68°F):	4.5 hPa (3 mm Hg)
Relative Density:	Not determined.
Viscosity:	Not determined.
Partition Coefficient (n-octanol/water), if applicable:	Not determined.
Explosive Properties:	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
Flammability: (Solid, gas)	N/A
Flammability Limit in Air: Upper/Lower	Lower: 1.1 Vol % Upper: 12.0 Vol%
Autoignition temperature:	230°C (446°F)
Decomposition temperature:	Not determined.

10. STABILITY AND REACTIVITY

Chemical Stability:	No data.
Conditions to Avoid:	No further relevant information available.
Incompatible Materials:	No further information available.
Hazardous Decomposition Products:	No dangerous decomposition products known.
Possibility of Hazardous Reactions:	No dangerous reactions known.
Reactivity:	No data.
Hazardous polymerization:	No data.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure:

Eye Contact –Serious Eye Damage or Irritation	Irritating effect.			
Skin Contact – Skin Corrosion, Sensitization or Irritation:	Irritant to skin and mucous membranes. Sensitization possible through skin contact.			
Ingestion – Carcinogenicity/Aspiration Hazard:	No data.			
Inhalation – Respiratory Sensitization/Toxicity:	No data.			
Symptoms related to the physical chemical and toxicological characteristics:				
Information on toxicological effects:	This product shows that following dangers according to internally approved calculations methods for preparations: Toxic; Irritant; Carcinogenic; The product can cause inheritable damage.			
Delayed or Immediate effects:	No data.			
Germ Cell Mutagenicity:	No data.			
Specific target organ toxicity (single exposure):	No data.			
Specific target organ toxicity (repeated exposure):	No data.			
Chemicals listed on NTP, IARC or OSHA as a Carcinogen?	IARC: 1,2-Dichlorobenzene; Cyclohexanone			
Chemical Name:	Oral LD50	Dermal LD50	Inhalation LC50	Percentage
1,2-dichlorobenzene	500 mg/kg (rat)	X	X	*
Cyclohexanone	1900 mg/kg (rat)	948 mg/kg (rabbit)	8000 mg/l (rat)	*
Bornan-d-one	1310 mg/kg (mouse)	X	X	*

*Estimates for product may be based on additional component data not shown.

12. ECOLOGICAL INFORMATION (NON-MANDATORY)

Ecotoxicity:	Toxic to Aquatic Life.
Persistence and degradability:	No further relevant information available.
Bioaccumulative potential:	No further relevant information available.
Aquatic / Terrestrial warnings:	No data.
Mobility in soil:	No further relevant information available.
Other adverse effects:	No further relevant information available.
General notes:	Water hazard class 3 (Self-assessment): extremely hazardous for water. Do not allow product to reach ground water, water course or sewage system, even in small quantities. Danger to drinking water if even extremely small quantities leak into the ground. Also poisonous for fish and plankton in water bodies. Very toxic for aquatic organisms.

13. DISPOSAL CONSIDERATIONS (NON-MANDATORY)

Disposal instructions:	Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
Contaminated packaging:	Disposal must be made according to official regulations.
Waste residues:	Disposal must be made according to official regulations.

14. TRANSPORTATION INFORMATION (NON-MANDATORY)

	DOT	IMDG	IATA
UN/ID number:	UN1992		
Proper shipping name:	Flammable liquids, toxic, n.o.s. (Turpentine substitute, o-Dichlorobenzene)	FLAMMABLE LIQUID, TOXIC, N.O.S. (TURPENTINE SUBSTITUTE, o-DICHLOROBENZENE)	
Transport hazard class/label:	3 Flammable liquids / 3 (6.1)		
Packing group (if applicable):	III		
Environmental Provisions:	Product contains environmentally hazardous substances: 1,2-dichlorobenzene		
Special Precautions:	Warning: Flammable liquids.		
Transport in bulk according to Annex II of MARPOL 73/78 and IBC Code	Not applicable.		
Emergency Response Guide Number: No data.	EmS-No:	F-E, S-D	

Pictograms**15. REGULATORY INFORMATION (NON-MANDATORY)**

US Federal Regulations:					
TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D):		All ingredients are listed.			
CERCLA (Superfund) reportable quantity (lbs.) (40 CFR 302.4)		No data.			
OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):		No data.			
Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A):		NO data.			
Chemical Name:	CAS Number:	Reportable Quantity:	Threshold planning quantity:	Threshold planning quantity, lower value:	Threshold planning quantity, upper value:
None	X	X	X	X	X
Superfund Amendments and Reauthorization Act of 1986 (SARA)					
SARA 304 Emergency release notification:		No data.			
SARA 311/312 (40 CFR 370) Hazardous Chemical:		No data.			
SARA 313 (TRI reporting):		Chemical Name: 1,2-Dichlorobenzene	CAS Number: 95-50-1	% by wt. *	
Drug Enforcement Administration (DEA) (21 CFR 1308.11-15):		No data.			

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (Haps) List:	No data.
Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):	No data.
Safe Drinking Water Act (SDWA):	No data.
Canadian Domestic Substances List (DSL):	Cyclohexanone; listed.
State Regulations	
TSCA:	This product is manufactured in compliance with all provisions of the Toxic Substances Control Act, 15 U.S. C. 2601 et. Seq.
FDA:	21 CFR 175.105
SARA/Title III:	This product does contain any substances at or above the reported threshold under Section 313, based on available data: 1,2-Dichlorobenzene
Conforms to Non-Toxic ASTM-4236:	Products are certified in a program of toxicological evaluation by a nationally recognized toxicologist to contain no materials in sufficient quantities to be toxic or injurious to humans or to cause acute or chronic health problems. These products are certified to be labeled in accordance with the voluntary chronic hazard labeling standard ASTM D-4236. In addition, there is no physical hazard as defined within 29 CFR Part 1910.1200(c).
California Proposition 65 Warning:	This product contains the following chemicals that are known to the State of California to cause cancer, birth defects, or other reproductive harm: None
HMIS III Rating:	Health=1, Fire=2, Reactivity=0
Unless a concentration is specified in Section 2 of the SDS, the above chemical(s) are present in trace amounts.	

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s).

16. OTHER INFORMATION

These recommendations and information contained in this MSDS have been compiled from sources believed to represent the most current information available when the MSDS was prepared. However, the manufacturer / distributor of this product does not provide any warranty, guaranty of representation as to the correctness or sufficient of this information. If this material is used in large amounts and/or an unusual manner, the user is obliged to determine what safety measures are appropriate, including the applicable and relevant workplace and environmental regulations pertaining to handling, use and disposal.

Table of Abbreviations			
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ACGIH:	American Conference of Governmental Industrial Hygienists	LD:	Lethal Dose
ANSI:	American National Standards Institute	MARPOL:	Marine Pollution
ASTM:	American Society for Testing Materials	mg / kg:	Milligram per Kilogram
°C:	Degrees Centigrade	mm:	Millimeter
CAA:	Clean Air Act	MSHA:	Mine Safety and Health Administration
CAS:	Chemical Abstract Service	N/A:	Not Applicable
CERCLA:	Comprehensive Environmental Response, Compensation & Liability Act	NFPA:	National Fire Protections Association
CFR:	Code of Federal Regulations	NIOSH:	National Institute for Occupational Safety and Health
CPR:	Controlled Products Regulations	NTP:	National Toxicology Program
DEA:	Drug Enforcement Act	OEL:	Over Exposure Limit
DOT:	Department of Transportation	OSHA:	Occupational Safety and Health Administration
DSL:	Canadian Domestic Substances List	PEL:	Permissible Exposure Limits
EmS:	Emergency Medical Goods Services	ppm:	Parts Per Million
EPA:	Environmental Protection Agency	SARA:	Superfund Amendment and Reauthorization Act
°F:	Degrees Fahrenheit	STEL:	Short-Term Exposure Limit
FDA:	Food & Drug Administration	SDS:	Safety Data Sheet
g/l:	Grams per Liter	SDWA:	Safe Drinking Water Act
HAPs:	Hazardous Air Pollutants	TLV:	Threshold Limit Value
Hg:	Mercury	TRI:	Toxics Release Inventory
HMIS:	Hazardous Materials Identification System	TSCA:	Toxic Substances Control Act
HNOC:	Hazard(s) Not otherwise classified	TWA:	Time – Weighted Average
IARC:	International Agency for Research on Cancer	U.N.	United Nations
IATA:	International Air Transport Association	WHMIS	Workplace Hazardous Materials Information System
ID:	Identification / Identity	>	Greater Than
IDLH:	Immediate Danger to Life or Health	<	Less Than
IMDG:	International Maritime Dangerous Goods	73/78:	1973 & 1978
LC:	Lethal Concentration		

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