

Ovec

MSDS Number: A160D

Revision Date: 2/5/2015

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1 PRODUCT AND COMPANY IDENTIFICATION

Manufacturer

Distributed By: Wechem, Inc
5734 Susitna Dr
Harahan, LA 70123

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Phone: 504-733-1152
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Web: www.wechem.com

Product Name: Ovec
Revision Date: 2/5/2015
MSDS Number: A160D
Product Code: A160
Product Use: Oven Cleaner

Emergency Telephone Number:
INFOTRAC
1-800-535-5053

2 HAZARDS IDENTIFICATION

- Route of Entry:** Inhalation, eye, ingestion, skin absorption
- Target Organs:** NA
- Inhalation:** May cause irritation to the respiratory system. Prolonged inhalation may be harmful.
- Skin Contact:** Causes severe skin burns. May cause an allergic skin reaction.
- Eye Contact:** Causes serious eye damage.
- Ingestion:** Toxic if swallowed. Causes digestive tract burns.

PERSONAL PROTECTION INDEX									
A									
B		+							
C		+		+					
D		+		+					
E		+		+					
F		+		+		+			
G		+		+					
H		+		+		+			
I		+		+					
J		+		+		+			
K		+		+		+			
X	Consult your supervisor or S.O.P. for "SPECIAL" handling directions								
A		n		o		p		q	
<small>Safety Glasses</small>	<small>Safety Glasses</small>	<small>Face Shield & Eye Protection</small>	<small>Gloves</small>	<small>Boots</small>	<small>Synthetic Apron</small>	<small>Full Suit</small>	<small>Additional Information</small>		
t		u		w		y		z	
<small>Dust Respirator</small>	<small>Vapor Respirator</small>	<small>Dust & Vapor Respirator</small>	<small>Full Face Respirator</small>	<small>Airline Hood or Mask</small>					

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GHS Signal Word:
DANGER

GHS Hazard Pictograms:



GHS Classifications:

Physical, Flammable Aerosols, 1
Health, Acute toxicity, 3 Oral
Health, Skin corrosion/irritation, 1 A
Health, Respiratory or skin sensitization, 1 Skin
Health, Serious Eye Damage/Eye Irritation, 1

GHS Phrases:

H222 - Extremely flammable aerosol
H301 - Toxic if swallowed
H314 - Causes severe skin burns and eye damage
H317 - May cause an allergic skin reaction
H318 - Causes serious eye damage

GHS Precautionary Statements:

P210 - Keep away from heat/sparks/open flames/hot surfaces. No smoking
P211 - Do not spray on an open flame or other ignition source.
P251 - Pressurized container: Do not pierce or burn, even after use.
P261 - Avoid breathing gas.
P264 - Wash thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product.
P272 - Contaminated work clothing should not be allowed out of the workplace.
P273 - Avoid release to the environment.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P301+310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P301+330+331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+361+353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+351+338 - IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do.

Continue rinsing.

P310 - Immediately call a POISON CENTER or doctor/physician.
P321 - Specific treatment (see this label).
P333+313 - If skin irritation or a rash occurs: Get medical advice/attention.
P363 - Wash contaminated clothing before reuse.
P405 - Store locked up.
P410+412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F
P501 - Dispose of contents/container in accordance with local/regional/national/international regulations.

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COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients:

Cas #	Chemical Name	Perc.	OSHA PEL (ppm)	ACGIH TLV(ppm)	Carcin. Ref.
56-81-5	1,2,3-Propanetriol	2.5-10%	5 mg/m3	NA	D
106-97-8	Butane	2.5-10%	NA	1000	D
1310-58-3	Potassium hydroxide	2.5-10%	NA	2 mg/m3	D
94266-47-4	Citrus Terpenes	1-2.5%	NA	NA	D
74-98-6	Propane	1-2.5%	NA	1000	D
68603-42-9	Amides, coco, N,N-bis(hydroxyethyl)	0.1-1%	NA	NA	B
Other components below reportable levels		80-90%			

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FIRST AID MEASURES

Inhalation:	Move to fresh air. Call a physician if symptoms develop or persist.
Skin Contact:	In case of eczema or other skin disorders: Seek medical attention and take along these instructions.
Eye Contact:	Rinse with water. Get immediate medical advice/attention if irritation develops and persists.
Ingestion:	Rinse mouth. Get medical attention if symptoms occur.

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FIRE FIGHTING MEASURES

Flammability: Extremely Flammable
Flash Point: -156 F (-104.4 C) Propellant estimated

Extinguishing media: Not available.
Do not use water jet as an extinguisher, as this will spread the fire.

Contents under pressure. Pressurized container may explode when exposed to heat or flame.

Special Fire fighting procedures: Firefighters must use standard protective equipment including fire retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor pressure build up. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.

Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk. In the event of fire and/or explosion do not breathe fumes.

Extremely flammable aerosol.

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ACCIDENTAL RELEASE MEASURES

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate protective equipment and clothing during clean-up. Avoid breathing gas. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Refer to attached safety data sheets and/or instructions for use. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Isolate area until gas has dispersed. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water. For waste disposal, see section 13 of the SDS.

Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharges into drains, water courses or onto the ground.

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HANDLING AND STORAGE

Handling Precautions:

Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. All equipment used when handling the product must be grounded. Do not re-use empty containers. Do not get into eyes, on skin, on clothing. Avoid breathing gas. Avoid prolonged exposure. Do not taste or swallow! When using, do not eat, drink or smoke. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices.

Storage Requirements:

Level 1 Aerosol.

Store locked up. Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50C/122F. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Refrigeration recommended. Store away from incompatible materials (see Section 10 of the SDS).

Level 3 Aerosol.

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EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls:

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

Personal Protective Equip:

HMIS PP, B | Goggles, Gloves

Respiratory Protection: If permissible levels are exceeded use NIOSH mechanical filter/organic vapor cartridge or an air-supplied respirator.

Protective gloves: For prolonged or repeated skin contact use suitable protective gloves.

Eye protection: Wear safety glasses with side shields (or goggles) and a face shield. Face shield is recommended.

Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

Wear appropriate thermal protective clothing, when necessary.

When using do not smoke. Keep away from food and drink. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace.

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PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

Liquid

Physical State:

Liquid

Spec Grav./Density:

(H2O=1): 0.923 estimated

Boiling Point:

490.74 F (254.85 C) estimated

Flammability:

Extremely Flammable

Vapor Pressure:

60 psig @ 70 Deg. F.

Odor:

Not Available

Flash Point:

-156 F (-104.4 C) Propellant estimated

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STABILITY AND REACTIVITY

Stability:	This product is stable and non-reactive under normal conditions of use, storage and transport.
Conditions to Avoid:	Avoid temperatures exceeding the flash point. Contact with incompatible materials.
Materials to Avoid:	Avoid contact with strong oxidizing agents.
Hazardous Decomposition:	No hazardous decomposition products are known.
Hazardous Polymerization:	Will not occur

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TOXICOLOGICAL INFORMATION

18 OZ OVEC (CAS Mixture)

Dermal LD50 947.2288 ml/kg, Days estimated (Guinea pig)
 LD50 37518.418 ml/kg estimated (Rabbit)

Inhalation LC100 1804.8732% estimated (Cat)
 LC50 24806.9785 mg/l, 120 minutes estimated (Mouse)
 LC50 1042.8156 %, 120 minutes estimated (Mouse)
 LC50 320.8664 mm/l, 2 hrs. estimated (Mouse)
 LC50 97985.5625 mg/min/l, 7 hrs estimated (Rat)
 LC50 25257.8516 mg/l, 4 hrs estimated (Rat)
 LC50 8990.6934 mg/l, 4 hrs estimated (Rat)

Oral LD50 5159.8687 mg/kg estimated
 LD50 438.0407 ml/kg estimated (Mouse)
 LD50 566.6855 mg/kg estimated (Rat)

Data summary for the components are as follows:

1,2,3-Propanetriol (56-81-5)

Dermal LD50 45 ml/kg, Days (Guinea pig)

Inhalation LC50 4655 mg/min/l, 7 hrs (Rat)

Oral LD50 >=10000 mg/kg (Guinea pig)
 LD50 23000 mg/kg (Mouse)
 LD50 20.81 ml/kg (Mouse)
 LD50 27 mg/kg (Rat)

Butane (106-97-8)

Inhalation LC50 1237 mg/l, 120 minutes (Mouse)
 LC50 52%, 120 minutes (Mouse)
 LC50 1355 mg/l (Rat)

Potassium hydroxide (1310-58-3)

Oral LD50 333 mg/kg (Rat)

Propane (74-98-6)

Inhalation LC50 1237 mg/l, 120 mins. (Mouse)
 LC50 52%, 120 mins. (Mouse)
 LC50 1355 mg/l (Rat)
 LC50 658 mg/l, 4 h (Rat)

Causes severe skin burns and eye damage
 Causes serious eye damage.
 May cause an allergic skin reaction.

No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

This product is not considered to be a carcinogen by IARC, ACGIH, NTP or OSHA.

IARC Monographs. Overall Evaluation of Carcinogenicity
 Amides, coco,N,N-bis(hydroxyethyl) (68603-42-9) 2B Possibly carcinogenic to humans

This product is not expected to cause reproductive or developmental effects.

Not an aspiration hazard. Not likely, due to form of the product.

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Prolonged exposure may be harmful.

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ECOLOGICAL INFORMATION

This product is harmful to aquatic life with long lasting effects.

18OZ OZ OVEC (CAS Mixture)

Algae IC50 280.2898 mg/L, 72 h (Algae)

Crustacea EC50 1311.5674 mg/L, 48 hs (Daphnia)

Fish LC50 17.7207 mg/L, 96 h (Fish)

Data summary for the components are as follows:

1,2,3-Propanetriol (56-81-5)

Fish LC50 54162 mg/L, 96 hrs, (Fish)

LC50 51000-57000 mg/l, 96 hrs, Rainbow trout, donaldson trout (*Oncorhynchus mykiss*)

Potassium hydroxide (1310-58-3)

Fish LC50 80 mg/l, 96 hrs, western mosquitofish (*Gambusia affinis*)

Partition coefficient n-octanol/water (log Kow)

1,2,3-Propanetriol -1.76

Butane 2.89

Propane 2.36

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

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DISPOSAL CONSIDERATIONS

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents under pressure. Do not puncture, incinerate or crush. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

Dispose in accordance with all applicable regulations.

The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see Disposal instructions).

Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied. Do not re-use empty containers.

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TRANSPORT INFORMATION

DOT

UN number UN1950
UN proper shipping name Aerosols, flammable, corrosive
Transport hazard class(es)
Class 2.1
Subsidiary risk 8
Label(s) 2.1, 8
Packing group Not applicable
Special precautions for user Read safety instructions, SDS and emergency procedures before handling.
Special provisions A34
Packaging exceptions 306
Packaging non bulk None
Packaging bulk None

This product meets the exception requirements of section 173.306 as a limited quantity and may be shipped as a limited quantity until 12/31/2020, the "Consumer Commodity-ORM-D" marking may still be used in place of the new limited quantity diamond mark for packages of UN 1950 Aerosols. Limited quantities require the limited quantity diamond mark on cartons after 12/31/20 and may be used now in place of the "Consumer Commodity ORM-D" marking on both and may be displayed concurrently.

IATA

UN number UN1950
UN proper shipping name Aerosols, flammable, containing substances in Class 8, Packing Group III
Transport hazard class(es)
Class 2.1
Subsidiary risk 8
Label(s) 2.1, 8
Packing group Not applicable
Environmental hazards No.
ERG Code 10C
Special precautions for user Read safety instructions, SDS and emergency procedures before handling.
Other information
Passenger and cargo Allowed
Aircraft
Cargo aircraft only Allowed
Packaging exceptions LTD QTY

IMDG

UN number UN1950
UN proper shipping name AEROSOLS
Transport hazard class(es)
Class 2.1
Subsidiary risk 8
Label(s) 2,8
Packing group Not applicable
Environmental hazards
Marine pollutant No
EmS F-D, S-U
Special precautions for user Read safety instructions, SDS and emergency procedures before handling.
Packaging exceptions LTD QTY
Transport in bulk according to AnnexII of MARPOL 73/78 and Not applicable.

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the IBC Code



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REGULATORY INFORMATION

COMPONENT / (CAS/PERC) / CODES

-
- *1,2,3-Propanetriol (56815 2.5-10%) HAP, MASS, OSHAWAC, PA, TSCA, TXAIR
 - *Butane (106978 2.5-10%) MASS, NJHS, OSHAWAC, PA, TSCA, TXAIR
 - *Potassium hydroxide (1310583 2.5-10%) CERCLA, CSWHS, MASS, OSHAWAC, PA, TSCA, TXAIR
 - *Citrus Terpene (94266474 1-2.5%) TSCA
 - *Propane (74986 1-2.5%) MASS, NJHS, OSHAWAC, PA, TSCA, TXAIR
 - *Amides, coco, N,N-bis(hydroxyethyl) (68603429 0.1-1%) TSCA, CP65C
 - *Formaldehyde (50000 0.01-0.1%) CERCLA, CSWHS, EHS302, EPCRAWPC, HAP, MASS, NJEHS, NJHS, NRC, OSHAHTS, OSHAPSM, PA, PROP65, SARA313, TOXICRCRA, TSCA, TXAIR, TXHWL
 - *Diethanolamine (111422 n/a%) CERCLA, CP65C, HAP, MASS, NJHS, OSHAWAC, PA, SARA313, TSCA, TXAIR
 - *Methanol (67561 n/a%) CERCLA, HAP, MASS, NJHS, OSHAWAC, PA, SARA313, TOXICRCRA, TSCA, TXAIR, TXHWL

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

REGULATORY KEY DESCRIPTIONS

- NJHS = NJ Right-to-Know Hazardous Substances
- TSCA = Toxic Substances Control Act
- MASS = MA Massachusetts Hazardous Substances List
- OSHAWAC = OSHA Workplace Air Contaminants
- PA = PA Right-To-Know List of Hazardous Substances
- TXAIR = TX Air Contaminants with Health Effects Screening Level
- CERCLA = Superfund clean up substance
- HAP = Hazardous Air Pollutants
- SARA313 = SARA 313 Title III Toxic Chemicals
- CP65C = California Proposition 65 Carcinogen
- CSWHS = Clean Water Act Hazardous substances
- EPCRAWPC = EPCRA Water Priority Chemicals
- PRIPOL = Clean Water Act Priority Pollutants
- TOXICPOL = Clean Water Act Toxic Pollutants
- EHS302 = Extremely Hazardous Substance
- NJEHS = NJ Extraordinarily Hazardous Substances
- NRC = Nationally Recognized Carcinogens
- OSHAHTS = OSHA Hazardous and Toxic Substances
- OSHAPEM = OSHA Chemicals Requiring process safety management
- PROP65 = CA Prop 65
- TOXICRCRA = RCRA Toxic Hazardous Wastes (U-List)
- TXHWL = TX Hazardous Waste List

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OTHER INFORMATION

We believe the statements technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind. ** Chemical listed as Carcinogen or Potential Carcinogen. [a] NTP [b] IARC Monograph [c] OSHA [d] Not listed [e] Animal data only
N/A = Not available N/D = Not determined