

Clear View

MSDS Number: A55E

Revision Date: 8/11/2015

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1 PRODUCT AND COMPANY IDENTIFICATION

Manufacturer

Wechem, Inc
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Product Name: Clear View
Revision Date: 8/11/2015
MSDS Number: A55E
Product Code: A55
Product Use: Glass and Plastic Protective Coating

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

2 HAZARDS IDENTIFICATION

Route of Entry: Ingestion, skin absorption, eye, inhalation

Inhalation: Prolonged inhalation may be harmful.

Skin Contact: No adverse effects due to skin contact are expected.

Eye Contact: Causes temporary irritation.

Ingestion: Expected to be a low ingestion hazard.

PERSONAL PROTECTION INDEX													
A					G								
B					H								
C					I								
D					J								
E					K								
F					X	Consult your supervisor or S.O.P. for "SPECIAL" handling directions							
A		n		O		p		q		r		S	
Additional Information													
t		U		w		y		Z					

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GHS Signal Word:
DANGER

GHS Hazard Pictograms:



GHS Classifications:
Physical, Flammable Aerosols, 1

GHS Phrases:
H222 - Extremely flammable aerosol

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.

P264 - Wash hands after handling.

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.

P332+313 - If skin irritation occurs: Get immediate medical advice/attention.

P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P311 - Call a POISON CENTER or doctor/physician if symptoms develop or persist.

P305+351+338 - IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do.

Continue rinsing.

P342+311 - Call a POISON CENTER or doctor/physician immediately.

P410+412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F

P501 - Dispose of waste and residues in accordance with local authority requirements.

Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment. Sparks may ignite liquid and vapor. May cause flash fire or explosion.

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COMPOSITION/INFORMATION ON INGREDIENTS
Ingredients:

Cas #	Chemical Name	Perc.	OSHA PEL (ppm)	ACGIH TLV(ppm)	Carcin. Ref.
106-97-8	Butane	2.5-10%	NA	1000	D
67-63-0	Isopropyl alcohol	2.5-10%	50	200	D
74-98-6	Propane	1-2.5%	1000	NA	D
1336-21-6	Ammonium hydroxide	0.1-1%	NA	NA	D
Other components below reportable levels		90-100%			

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FIRST AID MEASURES

Inhalation:	If inhalation of gas/fume/vapor/dust/mist from the material is excessive (air concentration is greater than the TLV or health effects are noticed), immediately remove the affected person(s) to fresh air. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Call a physician or Poison Control Center immediately. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a physician if symptoms develop or persist.
Skin Contact:	Take off immediately all contaminated clothing. Remove and isolate contaminated clothing and shoes. Immediately flush skin with plenty of water. Call a physician or Poison Control Center immediately. Get medical attention if irritation develops and persists. For minor skin contact, avoid spreading material on unaffected skin. Wash clothing separately before reuse.
Eye Contact:	Immediately flush eyes with plenty of water for at least 15 minutes. If a contact lens is present, DO NOT delay irrigation or attempt to remove the lens. Continue rinsing. Call a physician or Poison Control Center immediately.
Ingestion:	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Rinse mouth thoroughly. Never give anything by mouth to a victim who is unconscious or is having convulsions. Do not induce vomiting without advice from poison control center. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Do not use mouth-to-mouth method if victim ingested the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

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FIRE FIGHTING MEASURES

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

Water fog. Foam. Carbon dioxide (CO₂). Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only. Do not use water jet as an extinguisher, as this will spread the fire.

Unusual Fire & Explosion Hazard: Contents under pressure. Pressurized container may explode when exposed to heat or flame. This product is a poor conductor of electricity and can become electrostatically charged. If sufficient charge is accumulated, ignition of flammable mixtures can occur. To reduce potential for static discharge, use proper bonding and grounding procedures. This liquid may accumulate static electricity when filling properly grounded containers. Static electricity accumulation may be significantly increased by the presence of small quantities of water or other contaminants. Material will float and may ignite on surface of water. Fire may produce irritating, corrosive and/or toxic gases.

Special Fire fighting procedures: Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Firefighters should wear full protective clothing including self contained breathing apparatus. Structural firefighters protective clothing will only provide limited protection.

In case of fire and/or explosion do not breathe fumes. Firefighters must use standard protective equipment including flame 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. Do not direct water at source of leak or safety devices as icing may occur. 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. Some of these materials, if spilled, may evaporate leaving a flammable residue.

Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk. Cool containers exposed to flames with water until well after the fire is out. In the event of fire and/or explosion do not breathe fumes.

Extremely flammable aerosol.

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ACCIDENTAL RELEASE MEASURES

Consider initial downwind evacuation for at least 500 meters (1/3 mile). Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Remove all possible sources of ignition in the surrounding area. Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks). Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Use appropriate containment to avoid environmental contamination. Transfer by mechanical means such as vacuum truck to a salvage tank or other suitable container for recovery or safe disposal. 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. Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks). Keep out of low areas. Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. If possible, turn leaking containers so that gas escapes rather than liquid. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. For waste disposal, see section 13 of the SDS. This material and its container must be disposed of as hazardous waste.

Do not contaminate water. Avoid discharge into drains, water courses or onto the ground. Use appropriate containment to avoid environmental contamination.

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HANDLING AND STORAGE

Handling Precautions:

Will ignite if exposed to intensive heat or open air. Vapors may form explosive mixtures with air. May be ignited by open flame. Minimize fire risks from flammable and combustible materials (including combustible dust and static accumulating liquids) or dangerous reactions with incompatible materials. Handling operations that can promote accumulation of static charges include but are not limited to: mixing, filtering, pumping at high flow rates, splash filling, creating mists or sprays, tank and container filling, tank cleaning, sampling, gauging, switch loading, vacuum truck operations. 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 breathe mist or vapor. Do not get this material in contact with eyes. Do not get this material in contact with skin. Avoid prolonged exposure. Do not get this material on clothing. Use only in area provided with appropriate exhaust ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

For additional information on equipment bonding and grounding, refer to the Canadian Electrical Code in Canada, (CSA C22.1), or the American Petroleum Institute (API) Recommended Practice 2003, "Protection Against Ignitions Arising out of Static, Lightning, and Stray Currents" or National Fire Protection Association (NFPA) 77, "Recommended Practice on Static Electricity" or National Fire Protection Association (NFPA) 70, "National Electrical Code".

Storage Requirements:

Level 1 Aerosol

Keep locked up. Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122 °F. The pressure in sealed containers can increase under the influence of heat. 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. Avoid spark promoters. Ground/bond container and equipment. These alone may be insufficient to remove static electricity. Store in a well-ventilated place. Keep container dry. Refrigeration recommended. Keep away from food, drink and animal feedingstuffs. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS). Level 1 Aerosol (NFPA 30B)

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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. Ensure adequate ventilation, especially in confined areas.

Personal Protective Equip: Eye/face protection: Wear tight-fitting goggles or face shield. Wear safety glasses with side shields (or goggles). Avoid contact with eyes.
 Hand protection: Wear appropriate chemical resistant gloves.
 Skin protection (Other): Avoid contact with the skin. Wear chemical protective equipment that is specifically recommended by the manufacturer. It may provide little or no thermal protection.
 Respiratory protection: If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an air-supplied respirator.

Thermal hazards: Wear appropriate thermal protective clothing, when necessary.

Do not get in eyes. When using, do not eat, drink or smoke. Do not get this material in contact with skin. Avoid contact with skin. 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.

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PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear, Aerosol	Odor:	Ammoniacal
Physical State:	Gas	Flash Point:	-156 Deg F (-104.4 Deg C) Propellant estim
Odor Threshold:	Not available	VOC:	9.5%
Spec Grav./Density:	(H2O=1): 0.965 estimated	Auto-Ignition Temp:	797 F (425 C) estimated
Boiling Point:	212 F (100 C) estimated	UFL/LFL:	12%/2.5%
Vapor Pressure:	60 psig @ 70 F estimated		

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STABILITY AND REACTIVITY

Stability: Reactivity: The product is stable and non-reactive under normal conditions of use, storage and transport. Chemical stability: Risk of explosion. Risk of ignition.

Conditions to Avoid: Exposure to air. Heat, flames and sparks. Aerosol containers are unstable at temperatures above 49°C. Avoid temperatures exceeding the flash point. Contact with incompatible materials.

Materials to Avoid: Strong oxidizing agents. Isocyanates. Oxygen. Chlorine. Do not mix with other chemicals.

Hazardous Decomposition: No hazardous decomposition products are known.

Hazardous Polymerization: Hazardous polymerization does not occur.

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TOXICOLOGICAL INFORMATION

Ingestion Expected to be a low ingestion hazard.

Inhalation Prolonged inhalation may be harmful.

Skin contact No adverse effects due to skin contact are expected.

Eye contact Direct contact with eyes may cause temporary irritation.

CLEAR VIEW (CAS Mixture)

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Acute

Inhalation LC50 1223 mg/l 4 hrs estimated (Rat)

Components:**Butane (CAS 106-97-8)**Inhalation LC50 1237 mg/l, 120 mins. (Mouse)
LC50 52%, 120 minutes (Mouse)
LC50 1355 mg/l (Rat)**Isopropyl alcohol (67-63-0)**Dermal LD50 16.4 ml/kg, 24 hrs (Rabbit)
Inhalation LC50 >10000 ppm, 6 hrs (Rat)
Oral LD50 5.84 g/kg (Rat)**Propane (CAS 74-98-6)**Inhalation LC50 1237 mg/l, 120 mins. (Mouse)
LC50 52%, 120 minutes (Mouse)
LC50 1355 mg/l (Rat)
LC50 658 mg/l, 4h (Rat)**Respiratory sensitization:** Not available.**Skin sensitization:** Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.**Germ cell mutagenicity:** No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.**Carcinogenicity:** This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):** Not listed.**Reproductive toxicity:** This product is not expected to cause reproductive or developmental effects.**Specific target organ toxicity - (single exposure):** Not classified.**Specific target organ toxicity - (repeated exposure):** Not classified.**Aspiration hazard:** Not available.**Chronic effects:** Hazardous by OSHA criteria. Prolonged inhalation may be harmful. Prolonged or repeated exposure may cause lung injury. Repeated absorption may cause disorder of central nervous system, liver, kidneys and blood. Prolonged exposure may cause chronic effects. Not expected to be hazardous by WHMIS criteria.**Further information:** Symptoms may be delayed.

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ECOLOGICAL INFORMATION

Ecotoxicity

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

CLEAR VIEW (CAS Mixture)

Algae IC50 18279 mg/L, 72 hrs estimated (Algae)
Crustacea EC50 888 mg/L, 48 Hours (Daphnia)
Fish LC50 3581 mg/L, 96h

Components:

Ammonium Hydroxide (CAS 1336-21-6)

Aquatic

Crustacea EC50 0.66 mg/L, 48 Hours (Daphnia)
Fish LC50 15 mg/l, 96 hours Western mosquitofish (Gambusia affinis)

Isopropyl alcohol (67-63-0)

Aquatic

Algae IC50 10000.0001 mg/L, 72 hrs (Algae)
Crustacea EC50 13299 mg/L, 48 hrs. (Daphnia)
Fish LC50 >1400 mg/l, 96 hrs Bluegill (Lepomis macrochirus)

No data is available on the degradability of this product.

No data on bioaccumulative potential

Partition coefficient n-octanol/water (log Kow)

Butane	2.89
Isopropyl alcohol	0.05
Propane	2.36

No data on the mobility in soil.

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

Consult authorities before disposal. Contents under pressure. Do not puncture, incinerate or crush. This material and its container must be disposed of as hazardous waste. Incinerate the material under controlled conditions in an approved incinerator. Do not dispose of waste into sewer. If discarded, this product is considered a RCRA ignitable waste, D001. Dispose of contents/container in accordance with local/regional/national/international regulations.

Dispose in accordance with all applicable regulations.

D001: Waste Flammable material with a flash point <140 F 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
Transport hazard class(es)
Class 2.1
Subsidiary risk -
Label(s) 2.1
Packing group Not applicable
Special precautions for user Read safety instructions, SDS and emergency procedures before handling.
Special provisions N82
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
Transport hazard class(es)
Class 2.1
Subsidiary risk -
Label(s) 2.1
Packing group Not applicable
Environmental hazards No
ERG Code 10L
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 -
Label(s) 2.1
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



15	REGULATORY INFORMATION
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COMPONENT / (CAS/PERC) / CODES

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- *Butane (106978 2.5-10%) MASS, NJHS, OSHAWAC, PA, TSCA, TXAIR
 - *Isopropyl alcohol (67630 2.5-10%) MASS, NJHS, NRC, OSHAWAC, PA, TSCA, TXAIR
 - *Propane (74986 1-2.5%) MASS, NJHS, OSHAWAC, PA, TSCA, TXAIR
 - *Ammonium hydroxide (1336216 0.1-1%) CERCLA, CSWHS, MASS, NJEHS, PA, TSCA

REGULATORY KEY DESCRIPTIONS

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- MASS = MA Massachusetts Hazardous Substances List
 - OSHA = 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
 - NJHS = NJ Right-to-Know Hazardous Substances
 - TOXICRCRA = RCRA Toxic Hazardous Wastes (U-List)
 - TSCA = Toxic Substances Control Act
 - TXHWL = TX Hazardous Waste List
 - SARA313 = SARA 313 Title III Toxic Chemicals
 - NRC = Nationally Recognized Carcinogens
 - CSWHS = Clean water Act Hazardous substances
 - NJEHS = NJ Extraordinarily Hazardous Substances

16	OTHER INFORMATION
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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