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29 CFR 1910.1200 (OSHA HazCom 2012)

# **SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

**Product identifier** 

Trade name : Eagle One™ 20/20

GLASS CLEANER

#### Recommended use of the chemical and restrictions on use

Use of the Substance/Mixture : GLASS CLEANER

Details of the supplier of the safety data	Emergency telephone number
sheet	1-800-ASHLAND (1-800-274-5263)
Ashland	
P.O. Box 2219	Regulatory Information Number
Columbus, OH 43216	1-800-325-3751
United States of America	
	Product Information
	614-790-3333
EHS Customer Requests@ashland.com	
·	

#### **SECTION 2. HAZARDS IDENTIFICATION**

**GHS Classification** 

Flammable liquids : Category 4

**GHS Label element** 

Signal Word : Warning

Hazard Statements : Combustible liquid.

Precautionary Statements : If medical advice is needed, have product container or label at

hand.

Keep out of reach of children. Read label before use.

Prevention:

Keep away from heat/sparks/open flames/hot surfaces. - No

smoking.

Wear protective gloves/ eye protection/ face protection.

Response:

In case of fire: Use dry sand, dry chemical or alcohol-resistant

foam to extinguish.

Storage:

Store in a well-ventilated place. Keep cool.

Disposal:

Dispose of contents/ container to an approved waste disposal

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plant.

### Other hazards

None known.

#### **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture : Mixture

Chemical nature : Defatter

#### **Hazardous components**

Chemical Name	CAS-No.	Classification	Concentration (%)
ISOPROPANOL	67-63-0	Flam. Liq. 2; H225	1.41
		Eye Irrit. 2A; H319	
		STOT SE 3; H336	
PROPYLENE GLYCOL	1569-01-3	Flam. Liq. 3; H226	1.40
MONOPROPYL ETHER		Eye Irrit. 2A; H319	
		Lye IIII. ZA, 11319	

### **SECTION 4. FIRST AID MEASURES**

General advice : No hazards which require special first aid measures.

If inhaled : If breathed in, move person into fresh air.

If unconscious place in recovery position and seek medical

advice.

If symptoms persist, call a physician.

In case of skin contact : If on skin, rinse well with water.

First aid is not normally required. However, it is

recommended that exposed areas be cleaned by washing

with soap and water.

If on clothes, remove clothes.

In case of eye contact : Flush eyes with water as a precaution.

Remove contact lenses. Protect unharmed eye.

If eye irritation persists, consult a specialist.

If swallowed : Do not give milk or alcoholic beverages.

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Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.

Most important symptoms and effects, both acute and delayed

: Administration of high doses of isopropanol in combination with known hepatotoxic chemicals resulted in enhanced liver toxicity in experimental animals.

Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through

the skin may include:

stomach or intestinal upset (nausea, vomiting, diarrhea)

irritation (nose, throat, airways)

Cough

pain in the abdomen and lower back

Shortness of breath

confusion

lung edema (fluid buildup in the lung tissue)

Difficulty in breathing

Notes to physician : No hazards which require special first aid measures.

### **SECTION 5. FIREFIGHTING MEASURES**

Suitable extinguishing media : Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

Water spray Foam

Carbon dioxide (CO2)

Dry chemical

Unsuitable extinguishing

media

: High volume water jet

Specific hazards during

firefighting

: If product is heated above its flash point it will produce vapors sufficient to support combustion. Vapors are heavier than air and may travel along the ground and he ignited by heat pilot

and may travel along the ground and be ignited by heat, pilot lights, other flames and ignition sources at locations near the

point of release.

Do not allow run-off from fire fighting to enter drains or water

courses.

Hazardous combustion

products

: carbon dioxide and carbon monoxide

toxic fumes

Specific extinguishing

methods

.

Product is compatible with standard fire-fighting agents.

Further information : Use a water spray to cool fully closed containers.

Special protective equipment

for firefighters

: In the event of fire, wear self-contained breathing apparatus.

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### **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures : Remove all sources of ignition.

Persons not wearing protective equipment should be excluded

from area of spill until clean-up has been completed.

Environmental precautions : Prevent further leakage or spillage if safe to do so.

Methods and materials for containment and cleaning up

: Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to

local / national regulations (see section 13). Keep in suitable, closed containers for disposal.

Other information : Comply with all applicable federal, state, and local regulations.

Suppress (knock down) gases/vapours/mists with a water

spray jet.

### **SECTION 7. HANDLING AND STORAGE**

Advice on safe handling : Avoid formation of aerosol.

Provide sufficient air exchange and/or exhaust in work rooms. Smoking, eating and drinking should be prohibited in the

application area.

For personal protection see section 8.

Dispose of rinse water in accordance with local and national

regulations.

Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated

place.

Observe label precautions.

No smoking.

Electrical installations / working materials must comply with

the technological safety standards.

# SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

# Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
ISOPROPANOL	67-63-0	TWA	200 ppm	ACGIH
		STEL	400 ppm	ACGIH
		REL	400 ppm	NIOSH/GUID
			980 mg/m3	E

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STEL	500 ppm 1,225 mg/m3	NIOSH/GUID E
PEL	400 ppm 980 mg/m3	OSHA_TRA NS
TWA	400 ppm 980 mg/m3	TN OEL
STEL	500 ppm 1,225 mg/m3	TN OEL

#### **Biological occupational exposure limits**

Components	CAS-No.	Control parameters	Biological specimen	Samplin g time	Permissible concentratio n	Basis
ISOPROPANOL	67-63-0	acetone	Urine	Samplin g time: End of shift at end of work week.	40 mg/l	
Remarks:	Nonspecific	, Background				

**Engineering measures** 

 Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.

# Personal protective equipment

Hand protection

Remarks : The suitability for a specific workplace should be discussed

with the producers of the protective gloves.

Eye protection : Not required under normal conditions of use. Wear splash-

proof safety goggles if material could be misted or splashed

into eyes.

Skin and body protection : Wear as appropriate:

impervious clothing Safety shoes

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Wear resistant gloves (consult your safety equipment

supplier).

Hygiene measures : Wash hands before breaks and at the end of workday.

## **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Physical state : liquid

Colour : colourless

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Odour : characteristic

Odour Threshold : No data available

pH : Average 5.5

: No data available

Boiling point/boiling range : 180.5 °F / 82.5 °C

(1,013.232 hPa)

Calculated Phase Transition Liquid/Gas

Flash point : 197.01 °F / 91.67 °C

Method: Tag closed cup

Evaporation rate : No data available

Flammability (solid, gas) : No data available

Upper explosion limit : 16.9 %(V)

GLP: Calculated Explosive Limit

Lower explosion limit : 1.3 %(V)

GLP: Calculated Explosive Limit

Vapour pressure : 60.52728 hPa (25 °C)

Calculated Vapor Pressure

Relative vapour density : No data available

Relative density : No data available

Density : 1.00 g/cm3

Solubility(ies)

Water solubility : completely soluble

Solubility in other solvents : No data available

Partition coefficient: n-

octanol/water

: No data available

Thermal decomposition : No data available

Viscosity

Viscosity, dynamic : No data available

Viscosity, kinematic : No data available

Oxidizing properties : No data available

#### **SECTION 10. STABILITY AND REACTIVITY**

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Reactivity : No decomposition if stored and applied as directed.

Chemical stability : Stable under recommended storage conditions.

Possibility of hazardous

reactions

: Vapours may form explosive mixture with air.

Conditions to avoid : Heat, flames and sparks.

excessive heat

Do not allow evaporation to dryness.

Exposure to air or moisture over prolonged periods.

Incompatible materials : Acids

Aldehydes alkalis Amines

Ethylene oxide

halogenated hydrocarbons

halogens isocyanates strong bases

Strong oxidizing agents

Do not use with aluminum equipment at temperatures above

49C or 120 degrees F.

Hazardous decomposition

products

Aldehydes

carbon dioxide and carbon monoxide

Organic acids toxic fumes ketones

# **SECTION 11. TOXICOLOGICAL INFORMATION**

Information on likely routes of : Inhalation

exposure

Skin contact

Eye Contact Ingestion

**Acute toxicity** 

Not classified based on available information.

<u>Components:</u> ISOPROPANOL:

Acute oral toxicity : LD 50 (Rat): 5.84 g/kg

Acute inhalation toxicity : LC 50 (Rat): 16000 ppm

Exposure time: 4 h
Test atmosphere: vapour

Acute dermal toxicity : LD 50 (Rabbit): 12,800 mg/kg

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PROPYLENE GLYCOL MONOPROPYL ETHER:

Acute oral toxicity : LD 50 (Rat, male): 4,330 mg/kg

Method: OECD Test Guideline 401

LD 50 (Rat, female): 2,490 mg/kg Method: OECD Test Guideline 401

: LC 50 (Rat, male): > 1725 ppm Acute inhalation toxicity

Exposure time: 4 h

Method: OECD Test Guideline 403

Assessment: No adverse effect has been observed in acute

inhalation toxicity tests.

Acute dermal toxicity : LD 50 (Rabbit, female): 4,330 mg/kg

Method: OECD Test Guideline 402

LD 50 (Rabbit, male): 3,775 mg/kg Method: OECD Test Guideline 402

#### Skin corrosion/irritation

Not classified based on available information.

# Components:

**ISOPROPANOL:** 

Result: Slightly irritating to skin

# PROPYLENE GLYCOL MONOPROPYL ETHER:

Species: Rabbit

Method: OECD Test Guideline 404 Result: Slightly irritating to skin

#### Serious eye damage/eye irritation

Not classified based on available information.

Product:

Remarks: Unlikely to cause eye irritation or injury.

# **Components:**

**ISOPROPANOL:** 

Result: Irritating to eyes

# PROPYLENE GLYCOL MONOPROPYL ETHER:

Species: Rabbit

Result: Irritating to eyes

Method: OECD Test Guideline 405

### Respiratory or skin sensitisation

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

# Germ cell mutagenicity

Not classified based on available information.

# Carcinogenicity

Not classified based on available information.

#### Reproductive toxicity

Not classified based on available information.

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## STOT - single exposure

Not classified based on available information.

**Components:** 

**ISOPROPANOL:** 

Assessment: May cause drowsiness or dizziness.

STOT - repeated exposure

Not classified based on available information.

**Aspiration toxicity** 

Not classified based on available information.

**Further information** 

**Product:** 

Remarks: No data available

Components:

ISOPROPANOL:

Remarks: Central nervous system

Carcinogenicity:

IARC No component of this product present at levels greater than or

equal to 0.1% is identified as probable, possible or confirmed

human carcinogen by IARC.

OSHA No component of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential

carcinogen by OSHA.

NTP No component of this product present at levels greater than or

equal to 0.1% is identified as a known or anticipated carcinogen

by NTP.

# **SECTION 12. ECOLOGICAL INFORMATION**

# **Ecotoxicity**

#### Components:

ISOPROPANOL: Toxicity to fish

: LC 50 (Fathead minnow (Pimephales promelas)): 5,770 -

7,450 mg/l

Exposure time: 96 h

Test Type: flow-through test

Toxicity to daphnia and other

aquatic invertebrates

: LC 50 (Water flea (Daphnia magna)): > 10,000 mg/l

Exposure time: 24 h Test Type: static test

PROPYLENE GLYCOL MONOPROPYL ETHER:

Toxicity to fish : LC 50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l

Exposure time: 96 h Test Type: static test

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Toxicity to daphnia and other : EC 50 (Water flea (Daphnia)): > 100 mg/l

aquatic invertebrates

Exposure time: 48 h

Toxicity to algae

: EC 50 (Green algae): 1,466 mg/l

Exposure time: 96 h

Test Type: Growth inhibition

# Persistence and degradability

#### Components:

PROPYLENE GLYCOL MONOPROPYL ETHER:

Biodegradability : Biodegradation: 91.5 %

Exposure time: 28 d

Method: OECD Test Guideline 301A Remarks: Readily biodegradable

#### Bioaccumulative potential

# **Components:**

ISOPROPANOL:

Partition coefficient: n-

: log Pow: 0.05

octanol/water

PROPYLENE GLYCOL MONOPROPYL ETHER: Partition coefficient: n- : log Pow: 0.621

octanol/water

# Mobility in soil

# Components:

No data available

#### Other adverse effects

No data available

#### **Product:**

Additional ecological

: No data available

information

#### **Components:**

# **SECTION 13. DISPOSAL CONSIDERATIONS**

## Disposal methods

General advice : Do not dispose of waste into sewer.

Do not contaminate ponds, waterways or ditches with

chemical or used container.

Send to a licensed waste management company.

Dispose of in accordance with all applicable local, state and

federal regulations.

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Contaminated packaging : Empty remaining contents.

Dispose of as unused product.

Empty containers should be taken to an approved waste

handling site for recycling or disposal. Do not re-use empty containers.

Do not burn, or use a cutting torch on, the empty drum.

#### **SECTION 14. TRANSPORT INFORMATION**

# International transport regulations

### **REGULATION**

ID NUMBER	PROPER SHIPPING NAME	*HAZARD	SUBSIDIARY	PACKING	MARINE
		CLASS	HAZARDS	GROUP	POLLUTANT /
					LTD. QTY.

# **U.S. DOT - ROAD**

Not dangerous goods	

## U.S. DOT - RAIL

<del></del>		
	Not dangerous goods	

# **U.S. DOT - INLAND WATERWAYS**

Not dangerous goods	

# TRANSPORT CANADA - ROAD

Not dangerous goods	

# **TRANSPORT CANADA - RAIL**

Not dangerous goods	

# TRANSPORT CANADA - INLAND WATERWAYS

Not dangerous goods	

# **INTERNATIONAL MARITIME DANGEROUS GOODS**

Not dangerous goods	

#### **INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO**

Not dangerous goods	

# **INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER**

NOLOADORIOUS GOODS	NIat d	angerous goods	
	INOL O	anderous doods	

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# MEXICAN REGULATION FOR THE LAND TRANSPORT OF HAZARDOUS MATERIALS AND WASTES

117 to 1 E o			
	Not dangerous goods		

# \*ORM = ORM-D, CBL = COMBUSTIBLE LIQUID

Marine pollutant	no	

Dangerous goods descriptions (if indicated above) may not reflect quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

### **SECTION 15. REGULATORY INFORMATION**

SARA 311/312 Hazards : Fire Hazard

SARA 313 : This material does not contain any chemical components with

Component(s)SARA 313 known CAS numbers that exceed the threshold (De Minimis)

reporting levels established by SARA Title III, Section 313.

Pennsylvania Right To Know

WATER 7732-18-5 90.00 - 100.00 % ISOPROPANOL 67-63-0 1.00 - 5.00 %

**New Jersey Right To Know** 

WATER 7732-18-5 90.00 - 100.00 % ISOPROPANOL 67-63-0 1.00 - 5.00 %

PROPYLENE GLYCOL MONOPROPYL 1569-01-3 1.00 - 5.00 %

**ETHER** 

California Prop 65 Proposition 65 warnings are not required for this product

based on the results of a risk assessment.

The components of this product are reported in the following inventories:

TSCA : On TSCA Inventory

DSL : This product contains the following components listed on the

Canadian NDSL. All other components are on the Canadian

DSL.

AUSTR : On the inventory, or in compliance with the inventory

ENCS : Not in compliance with the inventory

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KECL : Not in compliance with the inventory

PICCS : Not in compliance with the inventory

IECSC : On the inventory, or in compliance with the inventory

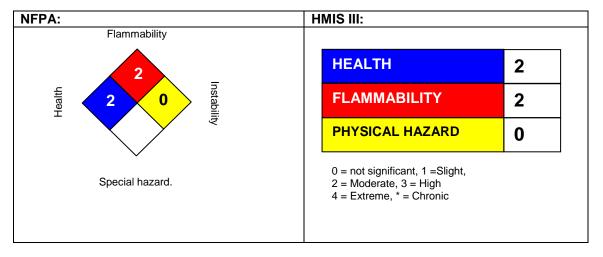
### **Inventories**

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)

#### **SECTION 16. OTHER INFORMATION**

#### **Further information**

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#### NFPA Flammable and Combustible Liquids Classification

Combustible Liquid Class IIIA

# Full text of H-Statements referred to under sections 2 and 3.

H225	Highly flammable liquid and vapor.
H226	Flammable liquid and vapor.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.

Sources of key data used to compile the Safety Data Sheet Ashland internal data including own and sponsored test reports

The UNECE administers regional agreements implementing harmonised classification for labelling (GHS) and transport.

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the

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information is current, applicable, and suitable to their circumstances. This SDS has been prepared by Ashland's Environmental Health and Safety Department (1-800-325-3751).

List of abbreviations and acronyms that could be, but not necessarily are, used in this safety data sheet:

ACGIH: American Conference of Industrial Hygienists

BEI : Biological Exposure Index

CAS: Chemical Abstracts Service (Division of the American Chemical Society).

CMR: Carcinogenic, Mutagenic or Toxic for Reproduction

FG: Food grade

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

H-statement: Hazard Statement

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

ICAO: International Civil Aviation Organization

ICAO-TI (ICAO): Technical Instructions by the "International Civil Aviation Organization"

IMDG: International Maritime Code for Dangerous Goods

ISO: International Organization for Standardization

logPow: octanol-water partition coefficient

LCxx: Lethal Concentration, for xx percent of test population

LDxx: Lethal Dose, for xx percent of test population. ICxx: Inhibitory Concentration for xx of a substance

Ecxx : Effective Concentration of xx N.O.S.: Not Otherwise Specified

OECD: Organization for Economic Co-operation and Development

OEL : Occupational Exposure Limit
P-Statement : Precautionary Statement
PBT : Persistent , Bioaccumulative and Toxic

PPE: Personal Protective Equipment STEL: Short-term exposure limit STOT: Specific Target Organ Toxicity

TLV: Threshold Limit Value TWA: Time-weighted average

vPvB: Very Persistent and Very Bioaccumulative

WEL: Workplace Exposure Level

CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act

DOT : Department of Transportation

FIFRA: Federal Insecticide, Fungicide, and Rodenticide Act HMIRC: Hazardous Materials Information Review Commission

HMIS: Hazardous Materials Identification System NFPA: National Fire Protection Association

NIOSH: National Institute for Occupational Safety and Health OSHA: Occupational Safety and Health Administration

PMRA: Health Canada Pest Management Regulatory Agency

RTK: Right to Know

WHMIS: Workplace Hazardous Materials Information System