SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

- Trade name AUGEO CLEAN MULTI

1.2 Relevant identified uses of the substance or mixture and uses advised against

Uses of the Substance / Mixture

- Cleaning agent
- Waxes
- Stain removers and waxes removers
- Glass cleaner
- diluent and vehicle for fragrances

1.3 Details of the supplier of the safety data sheet

Company

Solvay USA Inc.,
COATIS
8 Cedar Brook Drive
Cranbury, NJ, 08512-7500, US
Telephone number: 855-454-9921

1.4 Emergency telephone

FOR EMERGENCIES INVOLVING A SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT CONTACT: CHEMTREC 800-424-9300 within the United States and Canada, or 703-527-3887 for international collect calls.

SECTION 2: Hazards identification

Although OSHA has not adopted the environmental portion of the GHS regulations, this document may include information on environmental effects.

2.1 Classification of the substance or mixture

HCS 2012 (29 CFR 1910.1200)

Flammable liquids, Category 4	H227: Combustible liquid.
Eye irritation, Category 2A	H319: Causes serious eye irritation.

2.2 Label elements

HCS 2012 (29 CFR 1910.1200)

Pictogram



Signal Word

- Warning

Hazard Statements

- H227	Combustible liquid.
- H319	Causes serious eye irritation.

Precautionary Statements

Prevention

- P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
- P264 Wash skin thoroughly after handling.
- P280 Wear protective gloves/ eye protection/ face protection.

Response

- P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P337 + P313 If eye irritation persists: Get medical advice/ attention.
- P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

Storage

- P403 + P235 Store in a well-ventilated place. Keep cool.

Disposal

- P501 Dispose of contents/ container to an approved waste disposal plant.

2.3 Other hazards which do not result in classification

- H412: Harmful to aquatic life with long lasting effects.

SECTION 3: Composition/information on ingredients

3.1 Substance

Hazardous Ingredients and Impurities

Chemical Name	Identification number CAS-No.	Concentration [%]
Isopropylidene glycol	100-79-8	>= 99

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

3.2 Mixture

Not applicable, this product is a substance.

SECTION 4: First aid measures

4.1 Description of first-aid measures

General advice

- Show this material safety data sheet to the doctor in attendance.
- First responder needs to protect himself.
- Place affected apparel in a sealed bag for subsequent decontamination.

In case of inhalation

- Move to fresh air.
- Keep at rest.
- Consult a physician if necessary.

In case of skin contact

- Take off contaminated clothing and shoes immediately.
- Wash off with soap and plenty of water.
- If skin irritation occurs, seek medical advice/attention.

In case of eye contact

- Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
- If eye irritation persists, consult a physician.

In case of ingestion

- Do NOT induce vomiting.
- Rinse mouth with water.
- Do not give anything to drink.
- Consult a physician if necessary.

4.2 Most important symptoms and effects, both acute and delayed

Effects

- Inhalation of product may aggravate existing chronic respiratory problems such as asthma, emphysema or bronchitis

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician

- All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.
- Treat symptomatically.

SECTION 5: Firefighting measures

Flash point	196 °F (91 °C) closed cup 212 °F (100 °C) open cup
Autoignition temperature	no data available
Flammability / Explosive limit	no data available

5.1 Extinguishing media

Suitable extinguishing media

- Foam
- Dry powder
- Water mist
- Carbon dioxide (CO2)
- Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media

- High volume water jet

5.2 Special hazards arising from the substance or mixture

- Combustible liquid.
- Heating increases the inner pressure of the bottle, risk of explosion.

5.3 Advice for firefighters

Special protective equipment for fire-fighters

- Firefighters should wear NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing.

Further information

- Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Cool containers/tanks with water spray.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- Keep away from flames and sparks.
- Store away from heat.
- Evacuate personnel to safe areas.
- Avoid contact with the skin and the eyes.
- Use personal protective equipment.
- For personal protection see section 8.
- Stop the leak. Turn leaking containers leak-side up to prevent the escape of liquid.
- Remove all incompatible materials as quickly as possible
- Mark the contaminated area with signs and prevent access to unauthorized personnel.

6.2 Environmental precautions

- Dam up.
- Prevent product from entering sewage system.
- Try to prevent the material from entering drains or water courses.
- Local authorities should be advised if significant spillages cannot be contained.
- Spills may be reportable to the National Response Center (800-424-8802) and to state and/or local agencies

6.3 Methods and materials for containment and cleaning up

Recovery

- Pump up the product into a suitably labeled spare container.
- Recover as much of the product as possible.
- Soak up with inert absorbent material.
- Sweep up and shovel into suitable containers for disposal.
- Non-sparking tools should be used.
- Keep in suitable, closed containers for disposal.

Decontamination / cleaning

- Pick up contaminated soil.
- Clean contaminated floors and objects thoroughly while observing environmental regulations.
- After cleaning, flush away traces with water.
- Recover the cleaning water for subsequent disposal.

Disposal

- Treat recovered material as described in the section "Disposal considerations".

Additional advice

- Remove all incompatible materials as quickly as possible

6.4 Reference to other sections

- 8. EXPOSURE CONTROLS/PERSONAL PROTECTION
- 13. DISPOSAL CONSIDERATIONS

SECTION 7: Handling and storage

7.1 Precautions for safe handling

- Ground/bond container and receiving equipment.
- Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors).
- Non-sparking tools should be used.
- Use only with adequate ventilation/personal protection.

Hygiene measures

- Personal hygiene is an important work practice exposure control measure and the following general measures should be taken when working with or handling this materials:
- 1) Do not store, use, and/or consume foods, beverages, tobacco products, or cosmetics in areas where this material is stored.
- 2) Wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics, or using the toilet.
- 3) Wash exposed skin promptly to remove accidental splashes or contact with material.

- Ensure that eyewash stations and safety showers are close to the workstation location.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures/Storage conditions

- The floor of the depot should be impermeable and designed to form a watertight basin.

- Keep only in the original container.
- Keep away from heat and sources of ignition.
- Keep in a dry, cool and well-ventilated place.

Packaging material

Suitable material
- Unlined steel
- Plastic container of HDPE

Requirements for storage rooms and vessels

- Protect from frost, heat and sunlight.

7.3 Specific end use(s)

- no data available

SECTION 8: Exposure controls/personal protection

Introductory Remarks: These recommendations provide general guidance for handling this product. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. Assistance with selection, use and maintenance of worker protection equipment is generally available from equipment manufacturers.

8.1 Control parameters

- Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Control measures

Engineering measures

- Where engineering controls are indicated by use conditions or a potential for excessive exposure exists, the following traditional exposure control techniques may be used to effectively minimize employee exposures :

- Effective exhaust ventilation system
- Use only appropriately classified electrical equipment and powered industrial trucks.

Individual protection measures

Respiratory protection

- When respirators are required, select NIOSH/MSHA approved equipment based on actual or potential airborne concentrations and in accordance with the appropriate regulatory standards and/or industrial recommendations.
- Use a respirator with an approved filter if a risk assessment indicates this is necessary.

Hand protection

- Where there is a risk of contact with hands, use appropriate gloves
- Gloves must be inspected prior to use.
- Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

Eye protection

- Eye and face protection requirements will vary dependent upon work environment conditions and material handling practices. Appropriate ANSI Z87 approved equipment should be selected for the particular use intended for this material.
- Eye contact should be prevented through the use of:

- Tightly fitting safety goggles

Skin and body protection

- Choose body protection according to the amount and concentration of the dangerous substance at the work place.
- Remove and wash contaminated apparel.

Hygiene measures

- Personal hygiene is an important work practice exposure control measure and the following general measures should be taken when working with or handling this materials:
- 1) Do not store, use, and/or consume foods, beverages, tobacco products, or cosmetics in areas where this material is stored.
- 2) Wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics, or using the toilet.
- 3) Wash exposed skin promptly to remove accidental splashes or contact with material.

- Ensure that eyewash stations and safety showers are close to the workstation location.

Protective measures

- Selection of appropriate personal protective equipment should be based on an evaluation of the performance characteristics of the protective equipment relative to the task(s) to be performed, conditions present, duration of use, and the potential hazards, and/or risks that may occur during use.

- The protective equipment must be selected in accordance with current local standards and in cooperation with the supplier of the protective equipment.

SECTION 9: Physical and chemical properties

Physical and Chemical properties here represent typical properties of this product. Contact the business area using the Product information phone number in Section 1 for its exact specifications.

9.1 Information on basic physical and chemical properties

Appearance	Physical state: liquid Color: colorless
Odor	slight
Odor Threshold	no data available
pH	Not applicable
Freezing point	-94 °F (-70 °C)
Boiling point/boiling range	376 °F (191 °C) (760.00 mmHg (1,013.25 hPa))
Flash point	196 °F (91 °C) closed cup 212 °F (100 °C) open cup
Evaporation rate (Butylacetate = 1)	0.03
Flammability (solid, gas)	no data available
Flammability (liquids)	no data available
Flammability / Explosive limit	no data available
Autoignition temperature	no data available
Vapor pressure	0.04 mmHg (0.05 hPa) (68 °F (20 °C))
Vapor density	2.6
Density	Relative density: 1.069 (68 °F (20 °C))
Solubility	Water solubility : (68 °F (20 °C)) completely soluble Solubility in other solvents: Alcohol : miscible Esters : miscible Ether : miscible Aromatic hydrocarbons : miscible petroleum ether : miscible petrol : miscible

Partition coefficient: n-octanol/water	no data available
Thermal decomposition	no data available
Viscosity	Viscosity, dynamic : 11 mPa.s (68 °F (20 °C))
Explosive properties	no data available
Oxidizing properties	no data available

9.2 Other information

Surface tension	33.5 mN/m (68 °F (20 °C))
Molecular weight	132.16 g/mol

SECTION 10: Stability and reactivity

10.1 Reactivity

- Not classified as a reactivity hazard.

10.2 Chemical stability

- Stable at room temperature.
- Stable under normal conditions.

10.3 Possibility of hazardous reactions

- Vapors may form explosive mixture with air.

10.4 Conditions to avoid

- Heat, flames and sparks.

10.5 Incompatible materials

- Strong oxidizing agents
- Strong acids

10.6 Hazardous decomposition products

- On combustion or on thermal decomposition (pyrolysis), releases:
- (Carbon oxides (CO + CO2)).
- Acetic acid
- Ethanol

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Acute oral toxicity	LD50 : 7,000 mg/kg - Rat
Acute inhalation toxicity	no data available

Acute dermal toxicity

Isopropylidene glycol	LD50 : 2,000 mg/kg - Rat , male and female Method: OECD Test Guideline 402 Not classified as hazardous for acute dermal toxicity according to GHS. Unpublished internal reports
Acute toxicity (other routes of administration)	LD50 : 3,000 mg/kg - Rat Intraperitoneal route
Skin corrosion/irritation	No skin irritation Method: OECD Test Guideline 404 Unpublished internal reports
Serious eye damage/eye irritation	Irritating to eyes. Method: OECD Test Guideline 405 Unpublished internal reports
Respiratory or skin sensitization	Did not cause sensitization on laboratory animals. Method: OECD Test Guideline 406 Unpublished internal reports

Mutagenicity

Genotoxicity in vitro	Mutagenicity (Salmonella typhimurium - reverse mutation assay) negative Unpublished internal reports
Genotoxicity in vivo	Mutagenicity (micronucleus test)negative Unpublished internal reports
Carcinogenicity	no data available

This product does not contain any ingredient designated as probable or suspected human carcinogens by:

NTP
IARC
OSHA
ACGIH

Toxicity for reproduction and development

Toxicity to reproduction / fertility

Isopropylidene glycol	Reproduction / developmental toxicity screening test - Rat , male and female Oral NOAEL parent: 1,000 mg/kg Method: OECD Test Guideline 422 The product is not considered to affect fertility. Unpublished internal reports
Developmental Toxicity/Teratogenicity	no data available

STOT

STOT-single exposure

Isopropylidene glycol	Routes of exposure: Ingestion, Skin contact The substance or mixture is not classified as specific target organ toxicant, single exposure according to GHS criteria. internal evaluation

STOT-repeated exposure

Isopropylidene glycol	Routes of exposure: Ingestion The substance or mixture is not classified as specific target organ toxicant, repeated exposure according to GHS criteria. internal evaluation
Isopropylidene glycol	Oral - Rat , male and female NOAEL: 1000 mg/kg Method: OECD Test Guideline 422 Not considered to cause serious damage to health on repeated exposure Gavage Unpublished internal reports

Aspiration toxicity no data available

SECTION 12: Ecological information

12.1 Toxicity

Aquatic Compartment

Acute toxicity to fish	LC50 - 96 h : 16,700 mg/L - Pimephales promelas (fathead minnow)
Acute toxicity to daphnia and other aquatic invertebrates.	LC50 - 24 h : > 1,000 mg/L - Daphnia similis (Water flea) LC50 - 48 h : > 1,000 mg/L - Daphnia similis (Water flea)

Toxicity to aquatic plants

Isopropylidene glycol	ErC50 - 72 h : > 92 mg/l - Pseudokirchneriella subcapitata (green algae) static test Analytical monitoring: yes Method: OECD Test Guideline 201 Not harmful to algae (EC50 > 100 mg/L) Unpublished internal reports NOEC - 72 h : 92 mg/l - Pseudokirchneriella subcapitata (green algae) static test Analytical monitoring: yes Method: OECD Test Guideline 201 No adverse chronic effect observed up to and including the threshold of 1 mg / L. Unpublished internal reports

Toxicity to microorganisms

Isopropylidene glycol	EC50 - 3 h : > 1,000 mg/l - activated sludge static test Analytical monitoring: no Method: OECD Test Guideline 209 Unpublished internal reports

12.2 Persistence and degradability

Abiotic degradation

Stability in water

Isopropylidene glycol	pH: 4.0 Temperature of hydrolysis: 25 °C Degree of hydrolysis: 50 % Hydrolysis time: 0.959 Days Method: OECD Test Guideline 111 Unpublished internal reports,

Biodegradation

Biodegradability	Zahn-Wellens Test Inherently biodegradable.

Degradability assessment

Isopropylidene glycol	The product is not considered to be rapidly degradable in the environment

12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water	Not potentially bioaccumulable
Bioconcentration factor (BCF)	Bioconcentration factor (BCF): 1.3

12.4 Mobility in soil

Adsorption potential (Koc)

Isopropylidene glycol	Adsorption/Soil Log Koc: < 1.25 Method: OECD Test Guideline 121 Unpublished internal reports

12.5 Results of PBT and vPvB assessment

Isopropylidene glycol	This substance is not considered to be persistent, bioaccumulating, and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).

12.6 Other adverse effects no data available

Ecotoxicity assessment

Acute aquatic toxicity
Isopropylidene glycol — Not harmful to aquatic life (LC/EC50 > 100 mg/L)

Chronic aquatic toxicity
Isopropylidene glycol — Does not have any known long term adverse effects on the aquatic organisms tested

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product Disposal

- Chemical additions, processing or otherwise altering this material may make the waste management information presented in this SDS incomplete, inaccurate or otherwise inappropriate. Please be advised that state and local requirements for waste disposal may be more restrictive or otherwise different from federal laws and regulations. Consult state and local regulations regarding the proper disposal of this material.

- Dispose of wastes in an approved waste disposal facility.
- Incinerate directly or in combination with a flammable solvent.

Prohibition
- The product should not be allowed to enter drains, water courses or the soil.

Waste Code

- RCRA Hazardous Waste (40 CFR 302)
- Hazardous Waste – NO

Advice on cleaning and disposal of packaging

- Dispose of in accordance with local regulations.

Prohibition
- Should not be released into the environment.
- Beware of residues or vapors which remain in the drums.
- Do not burn, or use a cutting torch on the empty drum.

SECTION 14: Transport information

Transportation status: IMPORTANT! Statements below provide additional data on listed transport classification.
The listed Transportation Classification does not address regulatory variations due to changes in package size, mode of shipment or other regulatory descriptors.

DOT

14.1 UN number NA 1993

14.2 Proper shipping name COMBUSTIBLE LIQUID, N.O.S. (Dioxolane derivative compounds)

14.3 Transport hazard class Combustible liquid.

14.4 Packing group

Packing group	III
ERG No	128

14.5 Environmental hazards NO
Marine pollutant

14.6 Special precautions for user

Remarks : The combustible liquid classification only applies when shipped in package sizes >119 gallons.

TDG
not regulated

NOM
no data available

IMDG
not regulated

IATA
not regulated

Note: The above regulatory prescriptions are those valid on the date of publication of this sheet. Given the possible evolution of transportation regulations for hazardous materials, it would be advisable to check their validity with your sales office.

SECTION 15: Regulatory information

15.1 Notification status

Inventory Information	Status
United States TSCA Inventory	- On TSCA Inventory
Canadian Domestic Substances List (DSL)	- All components of this product are on the Canadian DSL
Australia Inventory of Chemical Substances (AICS)	- On the inventory, or in compliance with the inventory
Japan. CSCL - Inventory of Existing and New Chemical Substances	- On the inventory, or in compliance with the inventory
Korea. Korean Existing Chemicals Inventory (KECI)	- On the inventory, or in compliance with the inventory
China. Inventory of Existing Chemical Substances in China (IECSC)	- On the inventory, or in compliance with the inventory

15.2 Federal Regulations

US. EPA EPCRA SARA Title III

SARA HAZARD DESIGNATION SECTIONS 311/312 (40 CFR 370)

Fire Hazard	no
Reactivity Hazard	no
Sudden Release of Pressure Hazard	no
Acute Health Hazard	yes
Chronic Health Hazard	no

Section 313 Toxic Chemicals (40 CFR 372.65)
This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Section 302 Emergency Planning Extremely Hazardous Substance Threshold Planning Quantity (40 CFR 355)
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section 302 Emergency Planning Extremely Hazardous Substance Reportable Quantity (40 CFR 355)
This material does not contain any components with a SARA 302 RQ.

Section 304 Emergency Release Notification Reportable Quantity (40 CFR 355)
This material does not contain any components with a section 304 EHS RQ.

US. EPA CERCLA Hazardous Substances and Reportable Quantities (40 CFR 302.4)

This material does not contain any components with a CERCLA RQ.

15.3 State Regulations

US. California Safe Drinking Water & Toxic Enforcement Act (Proposition 65)

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

SECTION 16: Other information

NFPA (National Fire Protection Association) - Classification

Health	2 moderate
Flammability	2 moderate
Instability or Reactivity	0 minimal

HMIS (Hazardous Materials Identification System (Paint & Coating)) - Classification

Health	2 moderate
Flammability	2 moderate
Reactivity	1 slight
PPE	Determined by User; dependent on local conditions

Further information

- This sheet was updated (refer to the date at the top of this page). Subheadings and text which have been modified since the previous version are indicated with two vertical bars.
- Product evaluated under the US GHS format.

Date Prepared: 09/15/2015

- ACGIH American Conference of Governmental Industrial Hygienists
- OSHA Occupational Safety and Health Administration
- NTP National Toxicology Program
- IARC International Agency for Research on Cancer
- NIOSH National Institute for Occupational Safety and Health

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information, and belief at the date of its publication. Such information is only given as a guidance to help the user handle, use, process, store, transport, dispose, and release the product in satisfactory safety conditions and is not to be considered as a warranty or quality specification. It should be used in conjunction with technical sheets but do not replace them. Thus, the information only relates to the designated specific product and may not be applicable if such product is used in combination with other materials or in any other manufacturing process, unless otherwise specifically indicated. It does not release the user from ensuring he is in conformity with all regulations linked to its activity.