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**SECTION 1: Identification****1.1 Product identifier**Trade name **CottonEase Shampoo****Other means of identification**

Product code(s): 1622 Formula code: 05-100223

**1.2 Relevant identified uses**

Relevant identified uses General use

**1.3 Details of the supplier of the safety data sheet**MasterBlend • 5285 Fox Street • CO 80216 Denver • United States •  
Telephone: 303.373.0702 • Telefax 303.373.4968 • e-mail: info@masterblend.net • Website: masterblend.net**1.4 Emergency telephone number**Chem-Tel **1.800.255.3924** (USA & Canada) **1.813.248.0585** (International)**SECTION 2: Hazard(s) identification****2.1 Classification of the substance or mixture****Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)**

Annex	-	Hazard class and category	-	Hazard statement code(s)
B.6		flammable liquid	Cat. 3	(Flam. Liq. 3) H226
A.3		serious eye damage/eye irritation	Cat. 1	(Eye Dam. 1) H318

**Remarks**

For full text of H-phrases: see SECTION 16.

**Hazards not otherwise classified**Contact with acids liberates toxic gas.  
Harmful to aquatic life (GHS category 3: aquatic toxicity - acute).**The most important adverse physicochemical, human health and environmental effects**

The product is combustible and can be ignited by potential ignition sources.

**2.2 Label elements****Labelling acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)****Signal word** **DANGER****Pictograms**

GHS02, GHS05

**Hazard statements**H226 Flammable liquid and vapor.  
H318 Causes serious eye damage.**Precautionary statements****Precautionary statements - prevention**

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Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

**Precautionary statements - response**

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

In case of fire: Use sand, carbon dioxide or powder extinguisher to extinguish.

**Precautionary statements - storage**

Store in a well-ventilated place. Keep cool.

**Precautionary statements - disposal**

Dispose of contents/container to industrial combustion plant.

**Hazardous ingredients for labelling**

Sodium metabisulfite, sodium (C14-16) olefin sulfonate

**2.3 Other hazards**

There is no additional information.

**SECTION 3: Composition/information on ingredients****3.1 Substances**

not relevant (mixture)

**3.2 Mixtures****3.2.1**

Name of substance	Identifier	Wt%
Deionized Water	CAS No 7732-18-5	75 - < 90
Sodium metabisulfite	CAS No 7681-57-4	1 - < 5
Sodium (C14-16) olefin sulfonate	CAS No 68439-57-6	1 - < 5
Sodium gluconate	CAS No 527-07-1	1 - < 5
Isopropyl alcohol	CAS No 67-63-0	< 1

For full text of abbreviations: see SECTION 16.

**SECTION 4: First-aid measures****4.1 Description of first-aid measures****General notes**

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

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**Following inhalation**

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. Provide fresh air.

**Following skin contact**

Wash with plenty of soap and water.

**Following eye contact**

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

**Following ingestion**

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

**4.2 Most important symptoms and effects, both acute and delayed**

Symptoms and effects are not known to date.

**4.3 Indication of any immediate medical attention and special treatment needed**

none

**SECTION 5: Fire-fighting measures****5.1 Extinguishing media****Suitable extinguishing media**

water spray, alcohol resistant foam, BC-powder, carbon dioxide (CO<sub>2</sub>)

**Unsuitable extinguishing media**

water jet

**5.2 Special hazards arising from the substance or mixture**

In case of insufficient ventilation and/or in use, may form flammable/explosive vapor-air mixture. Solvent vapors are heavier than air and may spread along floors. Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures.

**Hazardous combustion products**

nitrogen oxides (NO<sub>x</sub>), carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>)

**5.3 Advice for firefighters**

In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures****For non-emergency personnel**

Remove persons to safety.

**For emergency responders**

Wear breathing apparatus if exposed to vapors/dust/aerosols/gases.

**6.2 Environmental precautions**

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose it.

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**6.3 Methods and material for containment and cleaning up****Advices on how to contain a spill**

Covering of drains.

**Advices on how to clean up a spill**

Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage (sawdust, kieselgur (diatomite), sand, universal binder).

**Appropriate containment techniques**

Use of adsorbent materials.

**Other information relating to spills and releases**

Place in appropriate containers for disposal. Ventilate affected area.

**6.4 Reference to other sections**

Hazardous combustion products: see section 5. Personal precautions: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

**SECTION 7: Handling and storage****7.1 Precautions for safe handling****Recommendations****Measures to prevent fire as well as aerosol and dust generation**

Use local and general ventilation. Avoidance of ignition sources. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharge. Use only in well-ventilated areas. Due to danger of explosion, prevent leakage of vapours into cellars, flues and ditches. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools.

**Warning**

Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures. Vapors are heavier than air, spread along floors and form explosive mixtures with air. Vapors may form explosive mixtures with air.

**Advice on general occupational hygiene**

Wash hands after use. Do not to eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

**7.2 Conditions for safe storage, including any incompatibilities****Managing of associated risks****• Explosive atmospheres**

Keep container tightly closed and in a well-ventilated place. Use local and general ventilation. Keep cool. Protect from sunlight.

**• Flammability hazards**

Keep away from sources of ignition - No smoking. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharge. Protect from sunlight.

**Incompatible substances or mixtures**

Observe compatible storage of chemicals.

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**Control of the effects**

**Protect against external exposure, such as**  
frost

**Consideration of other advice****Ventilation requirements**

Use local and general ventilation. Ground/bond container and receiving equipment.

**Packaging compatibilities**

Only packagings which are approved (e.g. acc. to DOT) may be used.

**7.3 Specific end use(s)**

See section 16 for a general overview.

**SECTION 8: Exposure controls/personal protection****8.1 Control parameters****National limit values****Occupational exposure limit values (Workplace Exposure Limits)**

Country	Name of agent	CAS No	Identifier	TWA [ppm]	TWA [mg/m <sup>3</sup> ]	STEL [ppm]	STEL [mg/m <sup>3</sup> ]	Source
US	isopropyl alcohol	67-63-0	PEL	400	980			29 CFR OSHA

**notation**

STEL Short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period unless otherwise specified.

TWA Time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average.

**Relevant DNELs/DMELs/PNECs and other threshold levels**

No data available.

**8.2 Exposure controls****Appropriate engineering controls**

General ventilation.

**Individual protection measures (personal protective equipment)****Eye/face protection**

Wear eye/face protection.

**Skin protection****• hand protection**

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

**• other protection measures**

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

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**Respiratory protection**

In case of inadequate ventilation wear respiratory protection.

**Environmental exposure controls**

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties****Appearance**

Physical state	liquid
Color	different
Odor	characteristic

**Other physical and chemical parameters**

pH (value)	6 (ready to use (4:1))
Melting point/freezing point	not determined
Initial boiling point and boiling range	not determined
Flash point	51.1 °C
Evaporation rate	not determined
Flammability (solid, gas)	not relevant (fluid)
Explosive limits	not determined
Vapor pressure	0.00000587 Pa at 25 °C
Density	not determined
Relative density	not determined
Solubility(ies)	not determined
Auto-ignition temperature	372.9 °C
Viscosity	not determined
Explosive properties	none
Oxidizing properties	none

**SECTION 10: Stability and reactivity****10.1 Reactivity**

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials". The mixture contains reactive substance(s): risk of ignition

**• if heated**

risk of ignition

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**10.2 Chemical stability**

See below "Conditions to avoid".

**10.3 Possibility of hazardous reactions**

No known hazardous reactions.

**10.4 Conditions to avoid**

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

**Hints to prevent fire or explosion**

Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge.

**Physical stresses which might result in a hazardous situation and have to be avoided**

strong shocks

**10.5 Incompatible materials**

There is no additional information.

**Release of toxic materials with**

acids

**10.6 Hazardous decomposition products**

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

**SECTION 11: Toxicological information****11.1 Information on toxicological effects**

Test data are not available for the complete mixture.

**Classification procedure**

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

**Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)****Acute toxicity**

Shall not be classified as acutely toxic.

**Acute toxicity of components of the mixture**

Name of substance	CAS No	Exposure route	ATE
Sodium metabisulfite	7681-57-4	oral	1,420

**Skin corrosion/irritation**

Shall not be classified as corrosive/irritant to skin.

**Serious eye damage/eye irritation**

Causes serious eye damage.

**Respiratory or skin sensitization**

Shall not be classified as a respiratory or skin sensitizer.

**Summary of evaluation of the CMR properties**

Shall not be classified as germ cell mutagenic, carcinogenic nor as a reproductive toxicant.

**Carcinogenicity**

- National Toxicology Program (United States): none of the ingredients are listed

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## • IARC Monographs

Name of substance	Name acc. to inventory	CAS No	wt%	Classification	Number
isopropyl alcohol	Isopropyl alcohol	67-63-0	0.7	3	Volume 15, Sup 7, 71
Sodium metabisulfite	Bisulfites		4	3	Volume 54

**legend**

3 Not classifiable as to carcinogenicity in humans.

**Specific target organ toxicity (STOT)**

Shall not be classified as a specific target organ toxicant.

**Aspiration hazard**

Shall not be classified as presenting an aspiration hazard.

**SECTION 12: Ecological information****12.1 Toxicity**

Harmful to aquatic life.

**Aquatic toxicity (acute)****Aquatic toxicity (acute) of components of the mixture**

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Sodium metabisulfite	7681-57-4	EC50	89 mg/l	aquatic invertebrates	48 hours
Sodium metabisulfite	7681-57-4	ErC50	43.8 mg/l	algae	72 hours
sodium (C14-16) olefin sulfonate	68439-57-6	LC50	4.2 mg/l	fish	96 hours
sodium (C14-16) olefin sulfonate	68439-57-6	EC50	4.53 mg/l	aquatic invertebrates	48 hours
sodium (C14-16) olefin sulfonate	68439-57-6	ErC50	5.2 mg/l	algae	72 hours
isopropyl alcohol	67-63-0	LC50	10,000 mg/l	fish	96 hours

**Aquatic toxicity (chronic)****Aquatic toxicity (chronic) of components of the mixture**

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
sodium (C14-16) olefin sulfonate	68439-57-6	EC50	230 mg/l	microorganisms	3 h
isopropyl alcohol	67-63-0	LC50	>10,000 mg/l	aquatic invertebrates	24 h

**Biodegradation**

The relevant substances of the mixture are readily biodegradable.



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**12.2 Persistence and degradability**

Data are not available.

**Degradability of components of the mixture**

Name of substance	CAS No	Process	Degradation rate	Time
sodium (C14-16) olefin sulfonate	68439-57-6	carbon dioxide generation	80 %	28 d
sodium (C14-16) olefin sulfonate	68439-57-6	DOC removal	96 %	28 d
isopropyl alcohol	67-63-0	oxygen depletion	53 %	5 d

**12.3 Bioaccumulative potential**

Data are not available.

**Bioaccumulative potential of components of the mixture**

Name of substance	CAS No	BCF	Log KOW	BOD5/COD
sodium (C14-16) olefin sulfonate	68439-57-6	70.8	-1.3	

**12.4 Mobility in soil**

Data are not available.

**12.5 Results of PBT and vPvB assessment**

Data are not available.

**12.6 Other adverse effects**

Data are not available.

**SECTION 13: Disposal considerations****13.1 Waste treatment methods****Waste treatment-relevant information**

Solvent reclamation/regeneration.

**Sewage disposal-relevant information**

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

**Waste treatment of containers/packages**

Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

**Remarks**


Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

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**SECTION 14: Transport information**

<b>14.1</b>	UN number	<b>1993</b>
<b>14.2</b>	UN proper shipping name	<b>FLAMMABLE LIQUID, N.O.S.</b>
<b>14.3</b>	Transport hazard class(es)	
	Class	3 (flammable liquids)
<b>14.4</b>	Packing group	III (substance presenting low danger)
<b>14.5</b>	Environmental hazards	none (non-environmentally hazardous acc. to the dangerous goods regulations)
<b>14.6</b>	Special precautions for user	
	There is no additional information.	
<b>14.7</b>	Transport in bulk according to Annex II of MARPOL and the IBC Code	
	The cargo is not intended to be carried in bulk.	

**Information for each of the UN Model Regulations****• Transport of dangerous goods by road or rail (49 CFR US DOT)**

Index number	1993
Proper shipping name	Flammable liquid, n.o.s.
Class	3
Packing group	III
Danger label(s)	3
	
Special provisions (SP)	B1, B52, IB3, T4, TP1, TP29
ERG No	128

**• International Maritime Dangerous Goods Code (IMDG)**

UN number	1993
Proper shipping name	FLAMMABLE LIQUID, N.O.S.
Class	3
Packing group	III
Danger label(s)	3
	
Special provisions (SP)	223, 274, 955
Excepted quantities (EQ)	E1
Limited quantities (LQ)	5 L
EmS	F-E, S-E
Stowage category	E

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• **International Civil Aviation Organization (ICAO-IATA/DGR)**

UN number	1993
Proper shipping name	Flammable liquid, n.o.s.
Class	3
Packing group	III
Danger label(s)	3



Special provisions (SP)	A3, 274
Excepted quantities (EQ)	E1
Limited quantities (LQ)	10 L

## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations specific for the product in question

#### National regulations (United States)

#### Industry or sector specific available guidance(s)

#### **NPCA-HMIS® III**

Hazardous Materials Identification System (American Coatings Association)

Category	Rating	Description
<b>Chronic</b>	/	None.
<b>Health</b>	3	Major injury likely unless prompt action is taken and medical treatment is given.
<b>Flammability</b>	2	Material that must be moderately heated or exposed to relatively high ambient temperatures before ignition can occur.
<b>Physical hazard</b>	1	Material that is normally stable but can become unstable (self-react) at high temperatures and pressures. Material may react non-violently with water or undergo hazardous polymerization in the absence of inhibitors.
<b>Personal protective equipment</b>	-	

#### **NFPA® 704**

National Fire Protection Association: Standard System for the Identification of the Hazards of Materials for Emergency Response (United States)

Category	Degree of hazard	Description
<b>Flammability</b>	2	Material that must be moderately heated or exposed to relatively high ambient temperatures before ignition can occur.
<b>Health</b>	3	Material that, under emergency conditions, can cause serious or permanent injury.
<b>Instability</b>	0	Material that is normally stable, even under fire conditions.
<b>Special hazard</b>		

**Relevant European Union (EU) safety, health and environmental provisions****Classification according to GHS (1272/2008/EC, CLP)****Hazard class**

flammable liquid

serious eye damage/eye irritation

**Category Hazard class and category**

3 (Flam. Liq. 3)

1 (Eye Dam. 1)

**SECTION 16: Other information, including date of preparation or last revision****Abbreviations and acronyms**

Abbr.	Descriptions of used abbreviations
29 CFR OSHA	29 CFR §1910.1001 - Occupational Safety and Health Standards: Toxic and Hazardous Substances (permissible exposure limits)
49 CFR US DOT	49 CFR § 40 U.S. Department of Transportation
ATE	Acute Toxicity Estimate
BCF	BioConcentration Factor
BOD	Biochemical Oxygen Demand
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
CLP	Regulation (EC) No 1272/2008 on classification, labeling and packaging of substances and mixtures
CMR	Carcinogenic, Mutagenic or toxic for Reproduction
COD	chemical oxygen demand
DMEL	Derived Minimal Effect Level
DNEL	Derived No-Effect Level
DOT	Department of Transportation (USA)
EmS	Emergency Schedule
ERG No	Emergency Response Guidebook - Number
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
HMIS	Hazardous Materials Identification System
IARC Monographs	IARC Monographs on the Evaluation of Carcinogenic Risks to Humans
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods Code
log KOW	n-octanol/water
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant)
NFPA® 704	National Fire Protection Association: Standard System for the Identification of the Hazards of Materials for Emergency Response (United States)
NPCA-HMIS® III	National Paint and Coatings Association: Hazardous Materials Identification System - HMIS® III, Third Edition
OSHA	Occupational Safety and Health Administration (United States)
PBT	Persistent, Bioaccumulative and Toxic
PEL	permissible exposure limit
PNEC	Predicted No-Effect Concentration
ppm	parts per million
STEL	short-term exposure limit

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Abbr.	Descriptions of used abbreviations
TWA	time-weighted average
vPvB	very Persistent and very Bioaccumulative

**Key literature references and sources for data**

- OSHA Hazard Communication Standard (HCS), 29 CFR 1910.1200
- 49 CFR § 172.101 Hazardous Materials Table (DOT)

**Classification procedure**

Physical and chemical properties: The classification is based on tested mixture.

Health hazards/Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

**List of relevant phrases (code and full text as stated in chapter 2 and 3)**

Code	Text
H226	flammable liquid and vapor
H318	causes serious eye damage

**Disclaimer**

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.