

Material Safety Data Sheet

NOSTE[®] Hands Cleaner

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Section 1. Identification of the substance

Product Name: **NOSTE[®] Hands Cleaner**

Section 2. Information on ingredients

Hazardous ingredients are listed only if present at a concentration of 2% or greater (0.2% for carcinogens). For a complete list of product ingredients, consult product label.

INCI (chemical Name)	%	LD ₅₀	LC ₅₀	CAS NO.
Alcohol (Ethanol)	< 65			64-17-5
Water (Aqua)	< 32			7732-18-5
Glycerin	< 2			56-81-5

Section 3. Identification of hazards

GHS Classification

Flammable liquids: Category 3
Eye irritation: Category 2A

GHS Label element

Hazard pictograms:



Signal Word: Warning
Hazard Statements: H226 Flammable liquid and vapor.
H319 Causes serious eye irritation.

Precautionary Statements:

Prevention

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P233 Keep container tightly closed.
P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.
P264 Wash skin thoroughly after handling.
P280 Wear protective gloves/ eye protection/ face protection.

Response

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for

	<p>several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P337 + P313 If eye irritation persists: Get medical advice/ attention.</p> <p>Storage</p> <p>P403 + P235 Store in a well-ventilated place. Keep cool.</p> <p>Disposal</p> <p>P501 Dispose of contents/ container to an approved waste disposal plant.</p> <p>Other hazards</p> <p>Vapors may form explosive mixture with air.</p>
Section 4. First aid measures	
Eye contact:	immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lens, if worn. Get medical attention.
Skin contact:	If skin irritation or allergic reactions occur, see a physician.
Inhalation:	Remove individual to fresh air
Ingestion:	Drink a lot of water. Induce vomiting
Comments:	Call a physician.
Section 5. Fire-fighting measures	
Suitable extinguishing media:	Water spray Alcohol-resistant foam Dry chemical Carbon dioxide (CO ₂)
Unsuitable extinguishing media:	CAUTION: All these products have a very low flash point. Use of water when fighting fire may be inefficient
Specific hazards during fire fighting:	Do not use a solid water stream as it may scatter and spread fire. Flash back possible over considerable distance. Vapors may form explosive mixtures with air. Exposure to combustion products may be a hazard to health.
Hazardous combustion products:	Carbon oxides
Specific extinguishing methods:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to do so. Evacuate area.
Special protective equipment for fire-fighters:	In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.
Section 6. Accidental release measures	
Individual precautions, protective equipment and emergency procedures:	Remove all sources of ignition. Use personal protective equipment.

Environmental precautions:

Follow safe handling advice and personal protective equipment recommendations.
Discharge into the environment must be avoided.
Prevent further leakage or spillage if safe to do so.
Prevent spreading over a wide area (e.g. by containment or oil barriers).
Retain and dispose of contaminated wash water.
Local authorities should be advised if significant spillages cannot be contained.

Methods and materials for containment and cleaning up:

Non-sparking tools should be used.
Soak up with inert absorbent material.
Suppress (knock down) gases/vapors/mists with a water spray jet.
For large spills, provide diking or other appropriate containment to keep material from spreading. If diked material can be pumped, store recovered material in appropriate container.
Clean up remaining materials from spill with suitable absorbent.
Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable.
Sections 13 and 15 of this SDS provide information regarding certain local or national requirements

Section 7. Handling and storage

Advice on safe handling:

Do not breathe vapors or spray mist.
Do not swallow.
Do not get in eyes.
Avoid prolonged or repeated contact with skin.
Handle in accordance with good industrial hygiene and safety practice.
Non-sparking tools should be used.
Keep container tightly closed.
Keep away from heat and sources of ignition.
Take precautionary measures against static discharges.
Take care to prevent spills, waste and minimize release to the environment.

Storage conditions:

Keep containers tightly closed in a dry, cool and well-ventilated place.
Store in accordance with the particular national regulations.
Keep away from heat and sources of ignition.

Materials to avoid

Do not store with the following product types:
Strong oxidizing agents
Organic peroxides

Flammable solids
 Pyrophoric liquids
 Pyrophoric solids
 Self-heating substances and mixtures
 Substances and mixtures which in contact with water emit flammable gases
 Explosives
 Gases

Shelf life: 36 Months before opening

Section 8. Exposure controls/personal protection

Control parameters:

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Ethanol 64-17-5	STEL : 1000 ppm	TWA : 1000 ppm TWA : 1900 mg/m ³	IDLH : 3300 ppm 10 % LEL TWA : 1000 ppm TWA : 1900 mg/m ³

ACGIH TLV : American Conference of Governmental Industrial Hygienists – Threshold Limit Value

OSHA PEL : Occupational Safety and Health Administration – Permissible Exposure Limits

NIOSH IDLH : National Institute for Occupational Safety and Health - Immediately Dangerous to Life or Health

Engineering measures: Minimize workplace exposure concentrations. Use only in an area equipped with explosion proof exhaust ventilation. Use with local exhaust ventilation.

Individual protection
 ~Respiratory: No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
 ~Eye: Wear the following personal protective equipment: Safety goggles
 ~Hands: Recommended: Impervious gloves
 ~Skin: Select appropriate protective clothing based on chemical resistance data and an assessment of the local exposure potential. Wear the following personal protective equipment: Flame retardant antistatic protective clothing. Skin contact must be avoided by using impervious protective clothing (gloves, aprons, boots, etc)
 Industrial hygiene: Ensure that eye flushing systems and safety showers are located close to the working place. When using do not eat, drink or smoke. Wash contaminated clothing before re-use.

Section 9. Physical and chemical properties

Appearance: Clear, Viscous Liquid
 Color: Colorless
 Specific Gravity (25°C): 0.80 ~ 1.00
 pH (25°C): 6.0~ 8.0
 Viscosity (25°C): 5,000 ~ 25,000 cps
 Total aerobic plate count: Max. 100 CFU/ml

Total Yeast and Moulds:	Max. 100 CFU/ml
Initial boiling point and boiling range:	≥ 70 °C
Flash point:	≥ 20 °C

Section 10. Stability and reactivity

Reactivity:	Not classified as a reactivity hazard.
Chemical stability:	Stable under normal conditions.
Possibility of hazardous reactions:	Flammable liquid and vapor. Vapors may form explosive mixture with air. Can react with strong oxidizing agents.
Hazardous decomposition products:	No hazardous decomposition products are known. Strong oxidizing agents
Materials to avoid:	Heat, flames and sparks.
Conditions to avoid:	

Section 11. Toxicological information

Information on likely routes of exposure

Inhalation	Specific test data for the substance or mixture is not available
Skin contact	Specific test data for the substance or mixture is not available
Ingestion	Specific test data for the substance or mixture is not available
Eye contact	Specific test data for the substance or mixture is not available

Acute toxicity

Product	Not classified based on available information.
Acute oral toxicity:	Acute toxicity estimate: > 5,000 mg/kg Method: Calculation method

Ingredients:

Chemical Name	Acute oral toxicity	Acute inhalation toxicity
Ethanol 64-17-5	LD50 (Rat): > 5,000 mg/kg	LC50 (Rat): 124.7 mg/l Exposure time: 4 h Test atmosphere: vapor

Skin corrosion/irritation

Product:	Not classified based on available information.
Ingredients:	Result: No skin irritation <Ethanol> Species: Rabbit Method: OECD Test Guideline 404 Result: No skin irritation

Serious eye damage/eye irritation

Product:	Causes serious eye irritation.
Ingredients:	<Ethanol> Species: Rabbit Result: Irritation to eyes, reversing within 21 days Method: OECD Test Guideline 405

Respiratory or skin sensitization

Product:	Skin sensitization: Not classified based on available information. Respiratory sensitization: Not classified based on available information.
Ingredients:	Assessment: Does not cause skin sensitization. <Ethanol>

Germ cell mutagenicity

Ingredients:

Test Type: Local lymph node assay (LLNA)

Routes of exposure: Skin contact

Species: Mouse

Result: negative

Not classified based on available information.

<Ethanol>

Genotoxicity in vitro :

Test Type: In vitro mammalian cell gene mutation test

Result: negative

Genotoxicity in vivo :

Test Type: Rodent dominant lethal test (germ cell) (in vivo)

Species: Mouse Application

Route: Ingestion Result: negative

Not classified based on available information.

Carcinogenicity**Reproductive toxicity**

Ingredients:

Not classified based on available information.

<Ethanol>

Effects on fertility:

Test Type: Two-generation reproduction toxicity study

Species: Mouse

Application Route: Ingestion

Method: OECD Test Guideline 416

Result: negative

STOT-single exposure

Not classified based on available information.

STOT-repeated exposure

Not classified based on available information.

Repeated dose toxicity

Ingredients:

<Ethanol>

Species: Rat

NOAEL: 2,400 mg/kg

Application Route: Ingestion

Exposure time: 2

Aspiration toxicity

Not classified based on available information.

Section 12. Ecological information**Ecotoxicity**

Ingredients:

Chemical Name		
Ethanol 64-17-5	Toxicity to fish	LC50 (Pimephales promelas (fathead minnow)): > 1,000 mg/l Exposure time: 96 h
	Toxicity to daphnia and other aquatic invertebrates	EC50 (Daphnia magna (Water flea)): > 1,000 mg/l Exposure time: 48 h
	Toxicity to algae	EC50 (Chlorella vulgaris (Fresh water algae)): 275 mg/l Exposure time: 72 h Method: OECD Test Guideline 20

<p>Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)</p>	<p>NOEC (Daphnia magna (Water flea)): 9.6 mg/l Exposure time: 9 d</p>
<p>Toxicity to bacteria</p>	<p>EC50 (Photobacterium phosphoreum): 32.1 mg/l Exposure time: 0.25 h</p>

Persistence and degradability

Ingredients: <Ethanol>
 Biodegradability:
 Result: Readily biodegradable.
 Biodegradation: 84 %
 Exposure time: 20 d

Persistence and Degradability

No data available

Bioaccumulation

No data available

Other adverse effects

No data available

Section 13. Disposal considerations

Waste : Can be as an industrial waste referring to local regulations waste elimination
 Used packages: Dispose of as unused product.
 Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not burn, or use a cutting torch on, the empty drum.

Section 14. Transport information

International Regulation		
IATA	UN/ID No.	UN1170
	Proper shipping name	ETHANOL
	Hazard Class	3
	Packing group	III
	Labels	Flammable Liquids
	Description	UN1170, ETHANOL, 3, III
IMDG-Code	UN/ID No.	UN1170
	Proper shipping name	ETHANOL
	Hazard Class	3
	Packing group	III
	Labels	3
	EmS Code	F-E, S-D

Section 15. Regulatory information

EPCRA
CERCLA Reportable Quantity This material does not contain any components with a CERCLA RQ.
SARA 311/312 Hazards Fire Hazard
SARA 313 Section 313 of Title III of the Superfund Amendments and

Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code Federal Regulations, Part 372

US State Regulations

Pennsylvania Right To Know
 New Jersey Right To Know
 California Prop 65

Ethanol (Cas no. 64-17-5) :65 %

Ethanol (Cas no. 64-17-5) :65 %

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

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

AICS:

All ingredients listed or exempt.

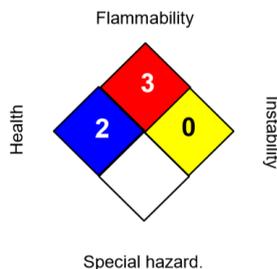
Inventories:

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

Section 16. Other information

Further information

	Health Hazards	Flammability		
NFPA	2	3	Instability 0	Physical and Chemical Hazard : N/A
HMIS	2	3	Physical Hazard 0	Personal Protection : x



HEALTH	2
FLAMMABILITY	3
PHYSICAL HAZARD	0

0 = not significant, 1 =Slight,
 2 = Moderate, 3 = High
 4 = Extreme, * = Chronic

Take usual precautions to avoid bacteriological pollution

Created Date
 Revision Date

February 19, 2020
 None

* The data in this MSDS relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.