SAFETY DATA SHEET



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

1.1. Product identifier

Trade name or designation

of the mixture

Sani Luxe Hand Sanitizer Gel

Registration number

Synonyms None.

TR-BR06, TR-BR08, TR-BR12, TR-BR40, TR-BR40/CA, TR-BR40/GAL, (Formula: LB-4000) **Part Number**

16-February-2023 Issue date

Version number

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

Identified uses Hand sanitizer. Uses advised against None known.

1.3. Details of the supplier of the safety data sheet

Supplier

Celeste Industries Company name

400 Thames Valley Park Drive **Address**

Berkshire, RG6 1PT, England

+44 (0) 1189 637930 **Telephone**

Manufacturer

Celeste Industries Corporation Company name

Address 8007 Industrial Park Rd

Easton, Maryland 21601 (USA)

+1-410-822-5775 **Telephone** info@celestecorp.com **Email**

In Case of Emergency CHEMTREC (24 hours) within USA and CANADA 1-800-424-9300

Outside USA and Canada (collect call accepted) 1-703-527-3883

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

Classification according to Regulation (EC) No 1272/2008 as amended

Physical hazards

Flammable liquids H226 - Flammable liquid and Category 3

vapour.

Health hazards

Serious eye damage/eye irritation Category 2 H319 - Causes serious eye

irritation.

2.2. Label elements

Label according to Regulation (EC) No. 1272/2008 as amended

Ethyl alcohol Contains:

Hazard pictograms



Signal word Warning

Hazard statements

H226 Flammable liquid and vapour. Causes serious eye irritation. H319

Precautionary statements

Prevention

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P210

Material name: Sani Luxe Hand Sanitizer Gel TR-BR06, TR-BR08, TR-BR12, TR-BR40, TR-BR40/CA, TR-BR40/GAL, (Formula: LB-4000) Version #: 01 Issue date: 16-February-2023

Ground and bond container and receiving equipment. P240 Use explosion-proof electrical/ventilating/lighting equipment. P241

P242 Use non-sparking tools.

Take action to prevent static discharges. P243

Response

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present P305 + P351 + P338

and easy to do. Continue rinsing.

In case of fire: Use appropriate media to extinguish. P370 + P378

Storage

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

Disposal Not assigned.

Supplemental label information EUH208 - Contains (R)-p-Mentha-1,8-diene. May produce an allergic reaction.

This mixture does not contain substances assessed to be vPvB / PBT according to Regulation 2.3. Other hazards

(EC) No 1907/2006, Annex XIII.

SECTION 3: Composition/information on ingredients

Mixture

General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
Ethyl alcohol	45 - 70	64-17-5 200-578-6	01-2119457610-43-0569	603-002-00-5	#
Classific	cation: Flam. Liq.	2;H225, Eye Irrit. 2;H	319		
(R)-p-Mentha-1,8-diene	0.2	5989-27-5 227-813-5	-	601-029-00-7	
Classifi		3;H226, Skin Irrit. 2;F quatic Chronic 1;H41	H315, Skin Sens. 1;H317, A)	quatic Acute	
Other components below repor	table 42.11				

levels

List of abbreviations and symbols that may be used above

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

#: This substance has workplace exposure limit(s).

Composition comments The full text for all H-statements is displayed in section 16.

SECTION 4: First aid measures

General information Take off all contaminated clothing immediately. Ensure that medical personnel are aware of the

material(s) involved, and take precautions to protect themselves. Wash contaminated clothing

before reuse.

4.1. Description of first aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact Take off immediately all contaminated clothing. Rinse skin with water/shower. Get medical

attention if irritation develops and persists.

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

Rinse mouth. Get medical attention if symptoms occur. Ingestion

4.2. Most important symptoms and effects, both acute and delaved

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred

vision.

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

Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim under observation. Symptoms may be delayed.

SECTION 5: Firefighting measures

General fire hazards Flammable liquid and vapour.

5.1. Extinguishing media

Suitable extinguishing

Water fog. Alcohol resistant foam. Dry chemical powder. Carbon dioxide (CO2).

Unsuitable extinguishing

media

media

Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture Vapours may form explosive mixtures with air. Vapours may travel considerable distance to a source of ignition and flash back. During fire, gases hazardous to health may be formed.

2/9

5.3. Advice for firefighters

Special protective equipment for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do

Special fire fighting procedures

so without risk.

Specific methodsUse standard firefighting procedures and consider the hazards of other involved materials.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

For emergency responders

Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during clean-up. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. Use personal protection recommended in Section 8 of the SDS.

6.2. Environmental precautions

Avoid discharge into drains, water courses or onto the ground.

6.3. Methods and material for containment and cleaning up

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil etc) away from spilled material. Take precautionary measures against static discharge. Use only non-sparking tools. Prevent entry into waterways, sewer, basements or confined areas.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.

Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use.

6.4. Reference to other sections

For personal protection, see section 8 of the SDS. For waste disposal, see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. When using do not smoke. Explosion-proof general and local exhaust ventilation. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Avoid contact with eyes. Avoid prolonged exposure. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

7.2. Conditions for safe storage, including any incompatibilities

Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in a cool, dry place out of direct sunlight. Store in tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS).

Storage class (TRGS 510): 3 (Flammable liquids)

7.3. Specific end use(s) Hand sanitizer.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

UK. EH40 Workplace Exposure Limits (WELs)

 Components
 Type
 Value

 Ethyl alcohol (CAS 64-17-5)
 TWA
 1920 mg/m3

 1000 ppm
 1000 ppm

Biological limit values

No biological exposure limits noted for the ingredient(s).

Recommended monitoring procedures

Follow standard monitoring procedures.

Derived no effect levels (DNELs)

General Population

 Components
 Value
 Assessment factor
 Notes

 Ethyl alcohol (CAS 64-17-5)
 Long-term, Systemic, Inhalation
 114 mg/m3
 Carcinogenicity

Workers

Components Value Assessment factor Notes

Ethyl alcohol (CAS 64-17-5)

Long-term, Systemic, Dermal 8238 mg/kg bw/day

Long-term, Systemic, Inhalation 380 mg/m3 Carcinogenicity

Predicted no effect concentrations (PNECs) Not available.

8.2. Exposure controls

Appropriate engineering

controls

Explosion-proof general and local exhaust ventilation. Good general ventilation 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. Provide eyewash station.

Individual protection measures, such as personal protective equipment

General information Use personal protective equipment as required. Personal protection equipment should be chosen

according to the CEN standards and in discussion with the supplier of the personal protective

equipment.

Eye/face protection Wear safety glasses with side shields (or goggles). Eye protection should meet standard EN 166.

Skin protection

- Hand protection Wear appropriate chemical resistant gloves. Wear suitable gloves tested to EN374.

- Other Wear suitable protective clothing.

If engineering controls do not maintain airborne concentrations below recommended exposure Respiratory protection

limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Follow guidance on selection, use, care

and maintenance in accordance with EN 529.

Wear appropriate thermal protective clothing, when necessary. Thermal hazards

Hygiene measures When using do not smoke. 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.

Environmental exposure

controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. Fume scrubbers, filters or

engineering modifications to the process equipment may be necessary to reduce emissions to

acceptable levels.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state Liquid. Gel. Form Colourless. Colour

Odour Citrus

Odour threshold Not available.

Hq Property has not been measured. Melting point/freezing point Property has not been measured.

Initial boiling point and boiling

range

> 78 °C (> 172.4 °F) estimated

36.1 °C (97.0 °F) Closed cup Flash point

Evaporation rate 2.7

Flammability (solid, gas) Flammable liquid and vapour.

Upper/lower flammability or explosive limits

Explosive limit - lower (%) Property has not been measured. Explosive limit - upper

Property has not been measured.

Vapour pressure Property has not been measured. Vapour density Property has not been measured.

Relative density 0.89 g/m³

Solubility(ies)

Solubility (water) Soluble in water. Not applicable. **Partition coefficient**

(n-octanol/water)

Not applicable. Auto-ignition temperature

Decomposition temperatureNot applicable.ViscosityNot available.Explosive propertiesNot explosive.Oxidising propertiesNot oxidising.

9.2. Other information

Kinematic viscosity Property has not been measured.

SECTION 10: Stability and reactivity

10.1. Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability Material is stable under normal conditions.

10.3. Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the decomposition temperature. Avoid temperatures exceeding the flash point. Contact with

incompatible materials.

10.5. Incompatible materials Strong oxidising agents.

10.6. Hazardous

No hazardous decomposition products are known.

decomposition products

10.4. Conditions to avoid

SECTION 11: Toxicological information

General information Occupational exposure to the substance or mixture may cause adverse effects.

Information on likely routes of exposure

Inhalation Prolonged inhalation may be harmful.

Eye contact Causes serious eye irritation.

Skin contact The product contains a small amount of sensitizing substance which may provoke an allergic

reaction among sensitive individuals in contact with skin.

Ingestion May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of

occupational exposure.

Symptoms Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred

vision.

11.1. Information on toxicological effects

Acute toxicity Not expected to be acutely toxic.

Components Species Test Results

(R)-p-Mentha-1,8-diene (CAS 5989-27-5)

<u>Acute</u>

Oral

LD50 Rat > 2000 mg/kg

Ethyl alcohol (CAS 64-17-5)

Acute Inhalation

Vapour

LC50 Rat 53 mg/l, 6 Hours

Oral

LD50 Rat > 7700 mg/kg

Skin corrosion/irritation

Serious eye damage/eye irritation

Due to partial or complete lack of data the classification is not possible.

Causes serious eye irritation.

Respiratory sensitisationDue to partial or complete lack of data the classification is not possible.

Skin sensitisation Due to partial or complete lack of data the classification is not possible.

Germ cell mutagenicityDue to partial or complete lack of data the classification is not possible.

Carcinogenicity Due to partial or complete lack of data the classification is not possible.

Reproductive toxicity Due to partial or complete lack of data the classification is not possible.

Specific target organ toxicity -

single exposure

Due to partial or complete lack of data the classification is not possible.

Specific target organ toxicity -

repeated exposure

Due to partial or complete lack of data the classification is not possible.

Aspiration hazard Due to partial or complete lack of data the classification is not possible.

5/9

Mixture versus substance information

substance No information available.

SECTION 12: Ecological information

12.1. Toxicity 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.

Components Species Test Results

(R)-p-Mentha-1,8-diene (CAS 5989-27-5)

Aquatic

Acute

Crustacea EC50 Water flea (Daphnia pulex) 69.6 mg/l, 48 hours

Fish LC50 Fathead minnow (Pimephales promelas) >= 0.619 - <= 0.796 mg/l, 96 hours

Ethyl alcohol (CAS 64-17-5)

Aquatic

Acute

Crustacea EC50 Water flea (Daphnia magna) >= 7.7 - <= 11.2 mg/l, 48 hours

Fish LC50 Rainbow trout, donaldson trout 42 mg/l, 4 days

(Oncorhynchus mykiss)

12.2. Persistence and

degradability

No data is available on the degradability of any ingredients in the mixture.

12.3. Bioaccumulative potential

Partition coefficient

n-octanol/water (log Kow)

(R)-p-Mentha-1,8-diene 4.57 Ethyl alcohol -0.31

Bioconcentration factor (BCF)

12.4. Mobility in soil 12.5. Results of PBT and vPvB

assessment

No data available.

Not available.

This mixture does not contain substances assessed to be vPvB / PBT according to Regulation

(EC) No 1907/2006, Annex XIII.

12.6. Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Residual waste 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).

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

EU waste codeThe Waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Disposal methods/information Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of

contents/container in accordance with local/regional/national/international regulations.

Special precautions Dispose in accordance with all applicable regulations.

SECTION 14: Transport information

ADR

14.1. UN number UN1170

14.2. UN proper shipping

name

ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)

14.3. Transport hazard class(es)

Class 3
Subsidiary risk Label(s) 3
Hazard No. (ADR) 30
Tunnel restriction code D/E
14.4. Packing group III

14.5. Environmental hazards No.

14.6. Special precautions Read

for user

Read safety instructions, SDS and emergency procedures before handling.

RID

14.1. UN number UN1170

ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION) 14.2. UN proper shipping name 14.3. Transport hazard class(es) 3 Class Subsidiary risk Label(s) 3 14.4. Packing group Ш 14.5. Environmental hazards No. 14.6. Special precautions Read safety instructions, SDS and emergency procedures before handling. for user ADN UN1170 14.1. UN number ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION) 14.2. UN proper shipping name 14.3. Transport hazard class(es) **Class** 3 Subsidiary risk 3 Label(s) 14.4. Packing group Ш 14.5. Environmental hazards No. 14.6. Special precautions Read safety instructions, SDS and emergency procedures before handling. for user IATA 14.1. UN number UN1170 14.2. UN proper shipping Ethanol solutions name 14.3. Transport hazard class(es) Class 3 Subsidiary risk 14.4. Packing group Ш 14.5. Environmental hazards No. **ERG Code**

14.6. Special precautions Read safety instructions, SDS and emergency procedures before handling.

for user

Other information

Passenger and cargo Allowed with restrictions.

aircraft

Cargo aircraft only Allowed with restrictions.

IMDG

14.1. UN number UN1170

14.2. UN proper shipping ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)

name

14.3. Transport hazard class(es)

Class 3 Subsidiary risk Ш 14.4. Packing group 14.5. Environmental hazards Marine pollutant No. **EmS** F-E. S-D

14.6. Special precautions

for user

Read safety instructions, SDS and emergency procedures before handling.

14.7. Transport in bulk This product is not intended to be transported in bulk.

according to Annex II of MARPOL 73/78 and the IBC

ADN; ADR; IATA; IMDG; RID



SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Retained direct EU regulations

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended Not listed.

Regulation (EU) 2019/1021 On persistent organic pollutants (recast), as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended

Not listed

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended

Not listed.

Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA Not listed.

Authorisations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended Not listed.

Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended Not listed.

Other EU regulations

Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended

(R)-p-Mentha-1,8-diene (CAS 5989-27-5)

Ethyl alcohol (CAS 64-17-5)

Other regulations

Product is regulated as a hand sanitizer and information in Section 2 will not match product label.

The product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP Regulation) as amended. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006, as amended.

Follow national regulation for work with chemical agents in accordance with Directive 98/24/EC, as amended.

15.2. Chemical safety

assessment

No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

List of abbreviations

ADN: European Agreement Concerning the International Carriage of Dangerous Goods by Inland Waterways.

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

CAS: Chemical Abstract Service.

CEN: European Committee for Standardization. IATA: International Air Transport Association.

IBC Code: International Code for the Construction and Equipment of Ships Carrying Dangerous

Chemicals in Bulk.

IMDG: International Maritime Dangerous Goods.

MARPOL: International Convention for the Prevention of Pollution from Ships.

PBT: Persistent, bioaccumulative and toxic.

RID: Regulations concerning the International Carriage of Dangerous Goods by Rail.

STEL: Short term exposure limit. TWA: Time Weighted Average.

vPvB: Very persistent and very bioaccumulative.

References ECHA registered substances database

Information on evaluation method leading to the classification of mixture

The classification for health and environmental hazards is derived by a combination of calculation methods and test data. if available.

Full text of any H-statements not written out in full under Sections 2 to 15

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation. H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

Product and Company Identification: Product Codes Composition / Information on Ingredients: Ingredients Physical & Chemical Properties: Multiple Properties

Transport Information: Product Shipping Name/Packing Group

Regulatory Information: Other

HazReg Data: International Inventories

GHS: Classification

Training information

Revision information

Disclaimer

Follow training instructions when handling this material.

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