



According to 91/155 EEC

Printing date 11.10.2005

Reviewed on 11.10.2005

1 Identification of substance

- · Product details
- Trade name: Microcare MTC
- · Application of the substance / the preparation Preservative
- · Manufacturer/Supplier:

THOR SPECIALITIES (UK) LTD.

Wincham Avenue Wincham Northwich Cheshire CW9 6GB Great Britain

Informing department:

Cosmetics Division:

Phone: +44 (0) 1606 818875 Fax: +44 (0) 1606 818801 e-mail: microcare@thor.uk.com

· Emergency information: Emergency phone number (24 h service): +49 6 21 60-4 33 33

2 Composition/Data on components

- · Chemical characterization
- Description: Preservative for cosmetics based on below mentioned active ingredients:
- Dangerous components:

CAS: 2682-20-4 | 2-methyl-2H-isothiazol-3-one | C, N; R 20/22-34-43-50 | < 1.0%

· Additional information For the wording of the listed risk phrases refer to section 16.

3 Hazards identification

- · Hazard designation: void
- · Information pertaining to particular dangers for man and environment

The product does not have to be classified and labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

4 First aid measures

- · After inhalation Supply fresh air; consult doctor in case of symptoms.
- · After skin contact Wash immediately with plenty of water and soap and rinse thoroughly.
- After eye contact

Rinse eyes thoroughly with plenty of water for at least 10 minutes while holding eyelids open. If symptoms persist, consult a physician.

After swallowing

Rinse out mouth and then drink plenty of water.

Administer activated charcoal (3 table spoons elutriated in glass of water).

Do not induce vomiting. Call for medical help.

5 Fire fighting measures

· Suitable extinguishing agents Water spray jet, extinguishing powder, CO2, foam.

(Contd. on page 2)

According to 91/155 EEC

Printing date 11.10.2005

Reviewed on 11.10.2005

Trade name: Microcare MTC

(Contd. of page 1)

- · Unsuitable extinguishing agents for reasons of safety: None
- · Special hazards caused by the material, its products of combustion or flue gases:

In case of fire, toxic incineration products may be released such

as:

Nitrogen oxides (NOx)

Carbon monoxide (CO)

Hydrogen chloride (HCI)

· Protective equipment: Put on breathing apparatus.

6 Accidental release measures

- · Personal safety precautions: Wear protective clothing (see item 8).
- · Measures for environmental protection:

Do not allow product to enter waters without treatment in a (biological) water treatment plant.

Measures for cleaning/collecting:

Collect large amounts in suitable container. Cover the rest with absorbent, mix intensively and collect mechanically.

Smaller amounts of contaminated binding material can be disposed of together with the usual household waste.

Suitable binder: multi-purpose binder (labelling: V)

7 Handling and storage

- · Handling
- Information for safe handling: Ensure good exhaust ventilation at the workplace.
- · Information about protection against explosion and fire: No special measures required.
- Storage
- · Requirements to be met by storerooms and containers: No special requirements.
- · Information about storage in a common storage facility: none
- Further information about storage conditions: None

8 Exposure controls and personal protection:

- · Additional information about design of technical systems: No further data; see item 7.
- · Components with critical values that require monitoring at the workplace:

57-55-6 1,2-propylene glycol

OES (Great Britain) Long-term value: 474* 10** mg/m³, 150* ppm *total (vapour and particulates) **particulates

- · Additional information: Information valid at the time of review of safety data sheet.
- · Personal protective equipment
- · General protective and hygienic measures

Use skin protection cream for preventive skin protection.

Avoid contact with the eyes and skin.

Wash hands during breaks and at the end of the shift.

· Respiratory protection: Not necessary if room is well ventilated.

(Contd. on page 3)

According to 91/155 EEC

Printing date 11.10.2005

Reviewed on 11.10.2005

Trade name: Microcare MTC

(Contd. of page 2)

· Protection of hands:



Chemical protective gloves (only CE-registration cat. III)

After use of gloves apply skin-cleaning agents and skin cosmetics.

- · Material of gloves Nitrile rubber, NBR
- Eye protection:



Hoder / temple spectacles with side protection.

· Body protection: Protective clothing.

9 Physical and chemical properties:

· General Information

Form: Colour: Liquid

Light yellow Odourless

Odour:
Change in condition

Melting point/Melting range: Not determined Boiling point/Boiling range: Not determined

· Flash point:

> 100°C

· Ignition temperature:

200°C

· Self-inflammability:

Product is not self-igniting.

Danger of explosion:

Product is not explosive. However, formation of explosive air/

steam mixtures is possible.

· Critical values for explosion:

Lower:

2.4 Vol %

Upper:

17.4 Vol %

· Vapour pressure at 20°C:

0.2 hPa

Density at 20°C

ca. 1.06 g/cm³

· Solubility in / Miscibility with

Water:

Fully miscible

10 Stability and reactivity

- · Conditions to be avoided: No decomposition if used according to specifications.
- · Minimum shelf life: 6 months from production date
- · Materials to be avoided: Strong oxidising agents
- · Dangerous reactions No dangerous reactions known.
- Dangerous products of decomposition:

None, if storage and handling is done according to specification.

SB -

According to 91/155 EEC

Printing date 11.10.2005

Reviewed on 11.10.2005

Trade name: Microcare MTC

(Contd. of page 3)

11 Toxicological information

- · Acute toxicity:
- LD/LC50 values that are relevant for classification:
 Product oral > 2000 mg/kg rat
- · Primary irritant effect:
- on the skin: No irritant effect
- on the eye: No irritant effect

12 Ecological information:

- · Ecotoxicological effects:
- · Remark: Depending on concentration, toxic effects on activated sludge organisms are possible.
- · Additional ecological information:
- AOX-indication: Can affect the AOX-value of the effluent water.
- The formulation contains the following heavy metals and compounds according to EC guideline NO. 76/464 EC:

Due to its formulation, the product does not contain any heavy metals.

· General notes: Avoid transfer into the environment.

13 Disposal considerations

- · Product:
- · Recommendation

Product must be disposed of according to local regulations pertaining to the disposal of hazardous waste.

European waste catalogue	
16 00 00	WASTES NOT OTHERWISE SPECIFIED IN THE LIST
16 03 00	off-specification batches and unused products
16 03 05	organic wastes containing dangerous substances

- · Contaminated packaging:
- · Recommendation: Packaging can be reused or recycled after cleaning.
- Recommended cleaning agent: Water, if necessary with cleaning agent.

14 Transport information:

- Land transport ADR/RID (cross-border/domestic):
- ADR/RID/ADG (Australia) Class: -
- · Maritime transport IMDG/GGVSea:
- · IMDG Class:
- Air transport ICAO-TI and IATA-DGR:
- ICAO/IATA Class:
- · Transport/Additional information: Not hazardous for transport according to a.m. regulations.

15 Regulatory information

Designation according to EC guidelines:

The product is not subject to classification according to the calculation methods of the "General Classification Guideline for Preparations of the EC" 1999/45/EC.

(Contd. on page 5)

According to 91/155 EEC

Printing date 11.10.2005

Reviewed on 11.10.2005

Trade name: Microcare MTC

(Contd. of page 4)

· Special designation of certain preparations:

Contains 2-methyl-2H-isothiazol-3-one. May produce an allergic reaction.

Designation and concentration of biocidal ingredients according to EC directive 98/8/EC:	
Chlorphenesin	100.0 g/kg
2-methyl-2H-isothiazol-3-one	10.0 g/kg

- · National regulations
- Regulations which may apply in event of accident: Control of Major Accident Hazards (COMAH)

 Not listed in the COMAH.
- · Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.

16 Other information:

This data is based on our present knowledge. However, it shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· R-phrases relevant to the product's hazardous ingredients:

20/22 Harmful by inhalation and if swallowed.

- 34 Causes burns.
- 43 May cause sensitisation by skin contact.
- 50 Very toxic to aquatic organisms.
- · Training hints

Further information under the regulations of use can be taken from the Product Data Sheet.

- · Department issuing data specification sheet: Biocides Department
- · Contact: David K. Wood
- * Data compared to the previous version altered.

GB



MSDS No.	PG-USP (Propylene Glycol USP)	Page
US-P-118		1/7

I. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

1. TRADE NAME : PG USP(Propylene Glycol USP)

o CAS NUMBER : 57-55-6 o RTECS NUMBER : TY2000000

o SUBSTANCE/ SYNONYMS: 1,2-Propanediol; 1,2-Dihydroxypropane;

2-Hydroxypropanol; Isopropylene Glycol; Methylethylene Glycol; Methylethyl Glycol; Monopropylene Glycol; 2,3-Propanediol; Alpha-Propylene Glycol; 1,2-Propylene

Glycol

o FORMULA : CH₃CH(OH)CH₂OH

o CHEMICAL FAMILY : Glycol

2. COMPANY: SKC Co., Ltd.

55, GOSA-DONG, NAM-GU, ULSAN CITY, KOREA

TEL. 82-52-278-5511 ~ 15

3. CREATION DATE: MAY 01 1996

4. REVISION DATE : JAN. 01, 2006 Rev. No.: 3

II. COMPOSITION, INFORMATION ON INGREDIENTS

III. HAZARDS IDENTIFICATION

1. EMERGENCY OVERVIEW:

o NFPA RATINGS (SCALE 0-4): HEALTH=0 FIRE=1 REACTIVITY=0

Odorless, clear, colorless, hygroscopic, viscous liquid with a slightly acrid taste. Avoid contact with eyes. Keep container tightly closed. Wash thoroughly after handling. Handle with caution.

2. POTENTIAL HEALTH EFFECTS:

o INHALATION:

SHORT TERM EFFECTS: No information available on significant adverse effects. LONG TERM EFFECTS: No information available on significant adverse effects.





MSDS No.	DC USD (Propulate Chical USD)	Page
US-P-118	PG-USP (Propylene Glycol USP)	2/7

o SKIN CONTACT:

SHORT TERM EFFECTS: No information available on significant adverse effects. LONG TERM EFFECTS: No information available on significant adverse effects.

o EYE CONTACT:

SHORT TERM EFFECTS: May cause minor eye irritation.

LONG TERM EFFECTS: No information is available.

o INGESTION:

SHORT TERM EFFECTS: No information available on significant adverse effects. LONG TERM EFFECTS: No information available on significant adverse effects.

3. CARCINOGEN STATUS:

OSHA: N NTP: N IARC: N

IV. FIRST AID MEASURES

1. INHALATION:

FIRST AID- No expected to present a significant inhalation hazard under anticipated conditions of normal use.

2. SKIN CONTACT:

FIRST AID- Remove contaminated clothing and shoes. Wash with soap or mild detergent and large amounts of water until no evidence of chemical remains (at least 15-20 minutes).

3. EYE CONTACT:

FIRST AID- Wash eyes immediately with large amounts of water or normal saline, occasionally lifting upper and lower lids, until no evidence of chemical remains (at least 15-20 minutes). Get medical attention immediately.

4. INGESTION:

FIRST AID- Treat symptomatically and supportively.

5. NOTE TO PHYSICIAN

o ANTIDOTE:

No specific antidote. Treat symptomatically and supportively.

V. FIRE FIGHTING MEASURES

1. FIRE AND EXPLOSION HAZARD:

Slight fire hazard when exposed to heat or flame. Heat from fire can generate flammable vapor. When mixed with air and exposed to ignition source, vapor can burn in open or explode if confined. Vapors may travel long distances along the ground before igniting and flashing back to vapor source. Fine sprays/mists may be combustible at temperatures below normal flash point. Aqueous solutions containing less than 95% propylene glycol by weight have no flash point as obtained by standard test methods. However aqueous





MSDS No.	PG-USP (Propylene Glycol USP)	Page
US-P-118		3/7

solutions of propylene glycol greater than 22% by weight, if heated sufficiently, will produce flammable vapor. Only aqueous solutions of propylene glycol less than 22% should used in sprinkler systems or other fire-fighting equipment. Always drain and flush systems containing propylene glycol with water before welding or other maintenance.

2. EXTINGUISHING MEDIA:

Dry chemical, carbon dioxide, water spray or alcohol-resistant foam. For larger fires, use water spray, fog or alcohol-resistant foam. Alcohol foam.

3. FIREFIGHTING:

Move container from fire area if you can do it without risk. Do not enter fire area without proper protection. Fight fire from a safe distance/protected location. Heat may build enough pressure to rupture closed containers/spreading fire/increasing risk of burns/injuries. Use water spray/fog for cooling. Avoid frothing/steam explosion. Do not scatter spilled material with high-pressure water streams. Burning liquid may float on water. Although water soluble, may not be practical to extinguish fire by water dilution. Dike fire-control water for later disposal. Avoid breathing hazardous vapors, keep upwind. Notify authorities immediately if liquid enters sewer/public waters.

4. FLASH POINT : 210 F (99 C) (CC)

5. LOWER FLAMMABLE LIMIT : 2.4% UPPER FLAMMABLE LIMIT : 17.4%

6. AUTOIGNITION : 700 F (371 C)

7. FLAMMABILITY CLASS(OSHA): IIIB

8. HAZARDOUS COMBUSTION PRODUCTS:

Thermal decomposition products may include toxic oxides of carbon.

VI. ACCIDENTAL RELEASE MEASURES

OCCUPATIONAL SPILL:

May contaminate water supplies/pollute public waters. Evacuate/limit access. Equip responders with proper protection. Prevent flow to sewer/public waters. Stop release. Notift fire and environmental authorities. Restrict water use for cleanup. Slippery walking. Spread granular cover. Impound/recover large land spill. Soak up small spills with inert soilds. Use suitable disposal containers. On water, material is soluble and may float or sink. May biodegrade. Contain /collect rapidly to minimize dispersion. Disperse residue to reduce aquatic harm. Report per regulatory requirements. Keep unnecessary people away; isolate hazard area and restrict entry.





MSDS No.	PG-USP (Propylene Glycol USP)	Page
US-P-118		4/7

VII. HANDLING AND STORAGE

Hygroscopic. Use dry nitrogen or low dew point air for tank padding. Keep drums tightly closed to prevent contamination. Store at 18~32~%. Store away from incompatible substances.

VIII. EXPOSURE CONTROLS, PERSONAL PROTECTION

1. EXPOSURE LIMITS:

No occupational exposure limits established by OSHA, ACGIH, or NIOSH.

2. VENTILATION:

No special ventilation is recommended under anticipated conditions of nomal use beyond that needed for normal comfort control.

3. EYE PROTECTION:

Employee wear splash-proof or dust-resistant safety goggles to prevent eye contact with this substance.

Emergency eye wash: Where there is any possibility that an employee's eyes may be exposed to this substance, the employer should provide an eye wash fountain within the immediate work area for emergency use.

4. SKIN PROTECTION:

Not normally considered a skin hazard. Where use can result in skin contact, practice good personal hygiene. Wash hands and other exposed areas with mild soap and water before eating, drinking, smoking, and when leaving work.

5. RESPIRATOR:

No special respirator protection is recommended under anticipated conditions of nomal use with adequate ventilation.

IX. PHYSICAL AND CHEMICAL PROPERTIES

1. DESCRIPTION : Clear, colorless; hygroscopic; Little or no ordor; Aromatic,

sweet odor

2. MOLECULAR WEIGHT : 76.11

3. MOLECULAR FORMULA: C-H3-C-H-(O-H)-C-H2-O-H

4. BOILING POINT : 370-372 F (188-189 C)

5. FREEZING POINT : -75 F (-59 C)

6. VAPOR PRESSURE : <0.1 mmHg @ 20 C

7. VAPOR DENSITY : 2.62 8. SPECIFIC GRAVITY : 1.0361





MSDS No.	DC USD (Branylana Clycal USD)	Page
US-P-118	PG-USP (Propylene Glycol USP)	5/7

9. WATER SOLUBILITY : soluble10. VOLATILITY : 100%

11. PH : no data available12. ODOR THRESHOLD : no data available

13. EVAPORATION RATE : 0.005 (butyl acetate=1)

14. VISCOSITY : 58.1 cP @ 20 C

15. SOLVENT SOLUBILITY: Soluble in alcohol, acetone, chloroform, ether, benzene many

organic solvents; insoluble in fixed oils.

X. STABILITY AND REACTIVITY

1. REACTIVITY:

Stable under normal temperatures and pressures.

2. CONDITIONS TO AVOID:

May burn but does not ignite readily. Avoid contact with strong oxidizers, excessive heat, sparks, or open flame.

3. INCOMPATIBILITIES:

o ACID ANHYDRIDES : Incompatible.o ACID CHLORIDES : Incompatible.o CHLOROFORMATES : Incompatible.

o METALS(LIGHT) : Reaction forms flammable hydrogen gas. o NITRIC ACID, HYDROFLUORIC ACID AND SILVER NITRATE :

Mixture forms explosive silver fulminate.

o OXIDIZERS : Fire and explosion hazard.

o PLASTICS : May be attacked. o REDUCING AGENTS : Incompatible.

o ACETALDEHYDE : Violent condensation reaction.

o BARIUM PERCHLORATE: Formation of highly explosive perchloric ester on refluxing.

o CHLORINE : Formation of highly explosive alkyl hypochlorites.

o DIETHYL ALUMINUM BROMIDE : Spontaneous ignition. o ETHYLENE OXIDE : Possible explosion.

o HEXAMETHYLENE DIISOCYANATE: Possible explosion in absence of solvent.

o HYDROGEN PEROXIDE + SULFURIC ACID: Possible explosion.

o HYPOCHLOROUS ACID : Formation of highly explosive alkyl hypochlorites.

o ISOCYANATES : Possible explosion in absence of solvent.

o LITHIUM ALUMINUM HYDRIDE: Vigorous reaction.

5	1		-
	Ŋ	100	

MSDS No.	DC USD (Branylana Clysol USD)	Page
US-P-118	PG-USP (Propylene Glycol USP)	6/7

o NITROGEN TETROXIDE : Possible explosion. o PERCHLORIC ACID (HOT) : Dangerous interaction.

o PERMONOSULFURIC ACID: Possible explosion on contact with primary or

secondary alcohols.

o TRI-ISO-BUTYL ALUMINUM: Violent reaction.

4. HAZARDOUS DECOMPOSITION:

Thermal decomposition products may include toxic oxides of carbon.

5. POLYMERIZATION:

Hazardous polymerization has not been reported to occur under normal temperatures and pressures.

XI. TOXICOLOGICAL INFORMATION

1. PROPYLENE GLYCOL:

o IRRITATION DATA: 500 mg/7 days skin-human mild; 104 mg/3 days intermittent skin-

human moderate; 10%/2 days skin-man; 100 mg eye-rabbit mild;

500 mg/24 hours eye-rabbit mild.

o TOXICITY DATA : 20,800 mg/kg skin-rabbit LD50; 22 gm/kg oral-mouse LD50;

18,500 mg/kg oral-rabbit LD50; 6300 mg/kg intramuscular-rabbit LDLo; 10 gm/kg/3 days continuous parenteral-infant TDLo; 2180 mg/m3/6 hours/90 days intermittent inhalation-rat TCLo

2. CARCINOGEN STATUS : None.

3. ACUTE TOXICITY LEVEL: Relatively non-toxic by dermal absorption and ingestion.

4. TARGET EFFECTS : No data available.

5. AT INCREASED RISK FROM EXPOSURE: No data available.

6. ADDITIONAL DATA : No data available.

XII. ECOLOGICAL INFORMATION

1. ENVIRONMENTAL IMPACT RATING (0-4) : No data available

2. ACUTE AQUATIC TOXICITY : No data available

3. DEGRADABILITY : No data available

4. LOG BIOCONCENTRATION FACTOR (BCF) : No data available

5. LOG OCTANOL/WATER PARTITION COEFFICIENT: No data available





MSDS No.	DC USD (Branylana Clysol USD)	Page
US-P-118	PG-USP (Propylene Glycol USP)	7/7

XIII. DISPOSAL CONSIDERATIONS

Contaminated product, soil, or water should not be designated hazardous waste. Landfill solids at permitted sites. Use registered transports. Burn concentrated liquids, diluting with clean, low viscosity fuel. Avoid flame-outs. Assure emissions comply with applicable regulations. Dilute aqueous waste may biodegrade. Avoid overloading/poisoning plant biomass. Assure effluent complies with applicable regulations.

XIV. TRANSPORT INFORMATION

No classification currently assigned.

XV. REGULATORY INFORMATION

o TSCA INVENTORY STATUS : Y

o CERCLA SECTION 103 (40CFR302.4) : N

o SARA SECTION 302 (40CFR355.30) : N

o SARA SECTION 304 (40CFR355.40) : N

o SARA SECTION 313 (40CFR372.65) : N

o OSHA PROCESS SAFETY (29CFR1910.119): N

o CALIFORNIA PROPOSITION 65 : N

o SARA HAZARD CATEGORIES, SARA SECTIONS 311/312 (40 CFR 370.21)

- ACUTE HAZARD : N

- CHRONIC HAZARD : N

- FIRE HAZARD : N

- REACTIVITY HAZARD : N

- SUDDEN RELEASE HAZARD : N

XVI. OTHER INFORMATION





Updated June 15, 2010

Sodium PCA

Material Safety Data Sheet (MSDS)

1. Product Identification

Product Name: Sodium PCA INCI Name: Sodium PCA Chemistry: Mineral CAS Number: 28874-51-3 **EINECS Number**: 249-277-1

2. Physical & Chemical Properties

Melting Point: not available Boiling Point: Non-Volatiles: not available not available Viscosity: not available Specific Gravity: 1.25 @ 25°C Solubility in water: soluble Refractive Index: not available

Appearance & Odor: Colorless, clear liquid, no odor.

3. Stability & Reactivity
Chemical Stability: Stable under normal conditions of storage and

Conditions to Avoid: Not available.

Incompatible Materials: Avoid contact with oxidizing agents. Hazardous Decomposition Products: Will not occur

Hazardous Polymerization: Will not occur.

4. Handling & Storage

Handling Precautions: Avoid container damage.

Storage Precautions: Store in sealed containers, preferably away

from heat or light.

Other Precautions: Use according to criteria of good industrial prac-

tice, avoid dispersion in the environment.

5. Accidental Release Measures

Personal Precautions: Use gloves and goggles. Environmental Precautions: Biodegradable product.

Methods for cleaning: Wash down spill area with copious amounts of

6. Exposure Controls & Personal Protection

Respiratory Protection: None needed for normal use.

Protective Clothing: Goggles and gloves.

Other Protective Measures: Give adequate ventilation to the premises

where the product is stored and/or handled.

7. Hazards Identification

Eye: No known effects. Skin: No known effects. Inhalation: Not determined. Ingestion: Not determined. Cancer: No data available. Target Organs: No data available. Developmental: No data available.

Pre-existing Medical Conditions: None known.

8. First Aid Measures

Eyes: Immediately flush eyes with copious amount of water for 15 min-

Skin: Wash material off skin with copious amounts of soap and water.

Inhalation: Remove victim to fresh air. Ingestion: Seek medical attention.

9. Fire Fighting Measures

Flash Point: Not determined

Extinguishing Media: Foam, carbon dioxide, dry chemical, water. Fire Fighting Procedures: Emergency responders should wear self

contained breathing apparatus.

10. Toxicological Information

Non-hazardous.

11. Disposal Consideration

Dispose of in authorized landfill or incinerate in accordance with local regulations.

12. Transport Information
DOT Shipping Name: not regulated

ADR/RIC Code: not regulated
Sea Transport IMDG Code: not regulated Air Transport IATA: not regulated

13. Disclaimer

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process. Such information is to be the best of the company's knowledge and believed accurate and reliable as of the date indicated. However, no representation, war-ranty or guarantee of any kind, express or implied, is made as to its accuracy, reliability or completeness and we assume no responsibility for any loss, damage or expense, direct or consequential, arising out of use. It is the user's responsibility to satisfy himself as to the suitableness & completeness of such information for his own particular use.

1. Chamical Product and Company Identification Product:

Trade name: GRINDSTED® Xanthan Clear 200

Use:

Food industry.

Supplier:

Danisco France SAS 20, rue Brunei F-75017 Paris France

Emergency telephone:

+33 5 49 27 60 00

France : ORFILA 01 45 42 59 59

2. Composition/Information on Ingredients

Description:

Xanthan gum (CAS number: 11138-66-2, EINEOS number: 234-394-2)

3. Hazards Identification

GRINDSTED® Xenthan Clear 200 is not classified as "dangerous" according to EC criteria.

Adverse human health effects:

inhabition of dust may be initiating to the respiratory system

Primary route(s) of entry/exposure:

inhelation of dust / fumes / serosols

Skin or eye contact

Physical hazards:

May present a dust explosion hexard

Spilled material may cause flooriequipment to become stoppery when set

4. First-Aid Measures

inhalation:

If respiratory initiation or distress occurs remove victim to fresh air. Seek modical attention if respiratory inflation or distress commuos.

Skin exposure

Wash with soap end water if necessary

Eye exposure:

Rinse with plenty of water for a prolonged period (at Wast 15 minutes)

if the quantity swallowed is significent:

Do not induce vomiting
Do NOT give the victim anything to otink, even if he is fully conscious.

if symptoms occur seek medical advice

Danisco Tertural ingrédiente necessaria necessaria necessaria

Page 2 / 6 Issue date 25/04-2005

DANISCO

First you add knowledge..

MSDS 208915-1EN

4 PS

MATERIAL SAFETY DATA SHEET

5. Fire-Fighting Measures

Suitable fro extinguishing precise:

Dry chamical/powder, form, carbon dioxide. Water or Water spray.

Linsuitable extinguishing media:

Do not use water jet

Special этровиги hazards

Risk of ignifion of dust cloud.

Nazardous Decomposition Materials (Under Fire Conditions): Refer to Section 10

Special protective equipment for finefighters:

Self-contained breathing apparatus.

For further information refer to section 8 "Exposure controls/personal protection".

5. Accidental Release Measures

Personal precautions:

Contaminated Room may be sappery

For further information refer to section 8 "Exposure-controls/personal protection".

This product does not present any particular risk for the environment.

Methods for cleaning up and disposal:

Do not flush to drain.

Sweep or vacuum up and place in an appropriate closed and suitability labelled container

Avoid reising dust

Wash the contaminated stea with water

7, Handling and Storage

' 'खार्चीसप्टर

Expensive dusting should be avoided Avoid inhalation of dust

Storage:

Store in original container.

- in a cool, dry srea. • in tightly closed containers.

ajneibengni igudust coainet mas, coainchéighlimí bingniarusad mas coainchéigh www

Page 3 / 5 lesse data 28/04-2006

DANISCO

First you add knowledge...

MSDS-208915-1EN

MATERIAL SAFETY DATA SHEET

8. Exposure Controls/Personal Protection

Occupational Exposure Limits: Please refer to nationally defined exposure limits for organic dust.

Occupational exposure controls:

Local exhaust Vernikation of dust/vapour/serosol at the point of generation. Use general area dilution/sochaust ventilation. Check vernikation equipment regularly for edequate performance

Personal protective equipment:

Dust/mid litering respirator.

- Hand Protection:

Impermeable protective gloves.

- Eye Protection:

Safety spectacles with side shields' spissh proof safety googles

- Skin Protection;

Suitable protective clothing, gloves and footwear, edlected with regard for use conditions and exposure potential.

9. Physical and Chemical Proporties

Appearance and odour.

σH:

Vapicur pressure:

Melting point;

Specific gravity/Relative density:

Solubility water:

Solubility organic solvents

Planamability characteristics:

Auto-ignition temperature:

Екріозма рюретіва:

Min Explosion Concentration:

Minimum ignition energy:

Oxidizing properties:

Greamy white time providered solid with a slight/faint occur

6 to 8 (equeous solution 1%)

Not applicable

Product does not meit.

0.7 - 0.8 kg/dm3

eclubie

practically insoluble

> 200/392 *C/*F

15 g/m3 (Duni)

> 1 J (Diskt)

Non-oxidizing material according to EC criteria.

10. Stability and Resctivity

Stable vader normal conditions of use.

Conditions to avoid:

Dusting conditions

Moistrie

Extreme humidity

Materials to avoid:

Strong exidizing agents.

Hazerdous decomposition products

Oxides of carbon

Smoke

Fage 4 / 5 xSU6 date 25/04-2005

BANISCO

first you add knowledge.

MATERIAL SAFETY DATA SHEET

M8DS 208915-1EN

11 4

ţ. ş

11. Toxicological Information

Acute toxicity:

LO 50 and (Rat): > 5000 mg/kg b.w. (Published dets)

Local effects:

NOT initiating to eyes and sion (unpublished data) The dust may be initiating to the respiratory system.

Sensitisation:

NOT sensitizing by skin contact (unpublished data)

Further Information:

No adverse effect has been observed in toxicity tests by repeated administration on Ingestion. Oral studies did not reveal any carolnogenic potential. (Published data)

Compensate are not listed as carolnogens by IARO, NTP, ACGIN or USHA

12, Ecological Information

Not classified as Dangerous for the Environment, according to EC criticia

Ecotoxicity:

The product does not have any known adverse diffects on the aquatic organisms tested. (Published data)

Mobility:

Ultimate destination of the product WATER.

Persistence & degradability:

Readily hodegradable.

Bioaccumulative potential

Not bioaccumulative

13. Disposal Considerations

Expose in accordance to local, state or federal laws and regulations.

Dispose of at an approved site. EPA Hazardous Waste - NO

Disposal of containars/packaging:

Clasning is not required prior to disposal. Disposa of at an approved site.

14. Transport Information

Not considered dangerous according to ADR, RID, IATA, IMO and CFR 49.

US DOT Shipping Name & Hazard Class:

Chemicals, N.O.S. Non-hazardous Dannet Tamust ingrediente. Verturalingsstiente@deniero.com Vertudenzo.com

Page 5 / 5 Scue dam 25/04-2005

DANISCO

First you aid knowledge ...

MSDS, 208915-1EN

MATERIAL SAFETY DATA SHEET

15. Regulatory Information

GRINDSTED® Xanthan Clear 200 is not classified as "dangerous" according to EC criteria

inventory status:

Europe (EINECS)

'ustratia (AICS)

Canada (DSL/NDSL)

tapen (MITT)

S. Korea (KECL)

US (TSCA)

Yes

Yes

Yes

Yes

California Proposition 65: This product does not contain any components that are regulated under California Proposition 65.

16. Other Information

A Product Description is available on request

This document should always he used to conjunction with product descriptional particular and product technical data wheels. (If available)
To information contained herein is, to the best of Daniseo's knowledge, excesses and reliable, but no warranty, gustantse or representation is not be accurately, fallability or completeness. The information relates only to the specific material designated and any rep to valid for such materials used in combination with any other materials as it any product, it is the specific responsibility to satisfy historic that the information has been called purpose and use. Health and called information intends to ward to be said use rether than the commission is statisfy the product. Any reference are applicable, the product owards to seath reference and information is not exhaust the user. The statisfy location is a solid or specific and use of the product.

MSDS FOR SODIUM HYALURONATE

(Material Safety Data Sheet)

1 IDENTITY

1.1 TRADE NAME

Sodium Hyaluronate

1.2 CHEMICAL NAME

Sodium Hyaluronate

1.3 MANUFACTURER AND ADDRESS

Shandong Freda Biochem Co., Ltd.

No.678

Tianchen

St., High-Tech

Development Zone, Jinan, China. 250101

EMERGENCY TELEPHONE NUMBER

Tel: +86-531-82685996

2. CHEMICAL IDENTITY

2.1 COMPONENTS

Sodium salt hyaluronic acid

2.2 CAS NO.

9067-32-7

2.3 MOLECULAR WEIGHT

 $(C_{14}H_{20}NO_{11}Na)_n$ (401.3)_n

3. HAZARDS IDENTIFICATION

No particular hazards to human and environmental

- 4. FIRST AID PROCEDURES
- 4.1 GENERAL INFORMATION

No particular precautions necessary

4.2 EYE CONTACT

Do not cause irritation

4.3 SKIN CONTACT

No particular precautions necessary

4.4 INHALATION

No particular precautions necessary

4.5 INJECTION

No particular precautions necessary

- 5. FIRE-FIGHTING MEASURES
- 5.1 EXTINGUISHING MEDIA

Water, foam, CO₂

5.2 SPECIAL FIRE -FIGHTING PROCEDURES

None

5.3 UNUSUAL FIRE AND EXPLOSION HAZARDS

None

6. ACCIDENTAL RELEASE MEASURES

6.1 STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Sweep or Vacuum. Note that an extreme slip hazard can develop if material spilled on the floor becomes wet.

6.2 WASTE DISPOSAL METHOD

Handle as none-hazardous material

7. HANDLING AND STORAGE

7.1 HANDLING

No particular precautions necessary

7.2 STORAGE

Store in cool, dry place protected from light.

8. PRECAUTION FOR SAFE USE

8.1 RESPIRATORY PROTECTION

A dust respirator should be worn if dust becomes annoying

8.2 VENTILATION

Local exhaust: sufficient to remove airborne dust if handling results in dust generation.

8.3 PROTECTIVE GLOVES

Not necessary

8.4 EYE PROTECTION

Not necessary

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 APPEARANCE

White powder almost taste-less and odor-less

9.2 SOLUBILITY

Soluble in water forming a viscous solution.

9.3 BOILING POINT

None volatile

9.4 FLASH POINT

None

9.5 MELTING POINT

None

9.6 FLAMMABILITY:

None

9.7 EXPLOSIVE CHARACTERISTICS

None-

10. STABILITY AND REACTIVITY

10.1 CONDITIONS TO AVOID

Storage conditions: As high temperature and a high level of humidity

10.2 MATERIAL TO AVOID

Strong oxidizing agents

10.3 HAZARDOUS POLYMERIZATION

Will not occur

11. TOXICOLOGICAL INFORMATION

ACUTE ORAL TOXICITY

LD₅₀>5000mg/kg(mice)

12. ECOLOGICAL INFORMATION

BIOLOGICAL DECOMPOSITION

It is biodegradable

13 DISPOSAL CONSIDERATION

Waste material disposal under observation of national or regional law

14. TRANSPORT INFORMATION

It is not a hazard product

No special measures have to be observed by transportation.

15. REGULATORY INFORMATION

Mandatory labeling of hazardous preparation: Not necessary

The regulatory information given in this document only indicates regulations applicable to the product described in the Safety Data Sheet.

16. FURTHER INFORMATION

The above mentioned information is based on the actual state of knowledge and does not involve any guaranty of attribute. Existing law and regulation have to be observed in own responsibility of the buyer of our product.



Product Name: Activera® 10X

1. Identification of the substance/preparation and company

1.1.	Trade name and Synonym:	Activera® 10X
1.2.	Company responsible (producer): Address:	Active Organics, Inc. 1097 Yates Street Lewisville, TX 75057
1.3.	Distributor: Address:	See Above

2. Composition/information on ingredients: (Activera® 10X)

		,
2.1.	Identification number:	AV104172-00
2.2.	CAS number(s):	94349-62-9
2.3.	EINECS number:	305-181-2
2.4.	INCI name:	Aloe Barbadensis Leaf Juice
2.5.	Hazardous ingredients:	Not Applicable

3. Hazards identification: (Activera® 10X)

C	NT 1	
Specific risks:	None known at this time.	

4. First aid measures: (Activera® 10X)

4.1.	First aid measures / general information:	After adequate first aid, no further treatment is required unless symptoms reappear.	
4.2.	Skin Contact:	Not expected to present a significant skin hazard under anticipated conditions of normal use.	

4 2010/7/5 下午 01:31

4.3.		Immediately rinse with clean water for 20-30 minutes. Retract eyelids often. Obtain emergency medical attention if pain, blinking, tears or redness persist.
4.4.	Inhalation:	Not expected to present a significant inhalation hazard under anticipated conditions of normal
		use.
4.5.	Ingestion:	Not expected to present a significant skin hazard under anticipated conditions of normal use.

5. Fire-fighting measures: (Activera® 10X)

5.1.	Suitable extinguishing media:	Not applicable
5.2.	Extinguishing media that must not be used for	Not applicable.
	safety reasons:	

6. Accidental release measures: (Activera® 10X)

6.1.	Environmental precautions Landfill solids at permitted sites. Use registered transporters. Assure emissions comply with applicable regulations. Contaminated product soil, water, container residues and spill cleanup materials should not be designated as hazardous wastes.
6.2.	Methods for cleaning up / taking up: Prevent flow to sewer/public waters. Spread granular cover. Soak up small spills with inert solids. Dispose of
	in compliance with Federal, State and Local regulations, Contain/collect rapidly to minimize dispersion.

7. Handling and Storage: (Activera® 10X)

7.1.	Handling:	Normal handling and storage consistent with good manufacturing practices should be used.
7.2.	Storage:	Keep containers closed until used. To maintain product quality, do not store in heat or direct sunlight.
7.3.	Reactivity Data:	Not reactive

8. Expos	8. Exposure controls / personal protection: (Activera® 10X)		
8.1.	Personal Protective Equipment:		
	Eyes: Eye protection such as chemical splash goggles and/or face shield must be worn when possibility exists for eye contact due to splashing or		
	spraying liquid, airborne particles, or vapor. Contact lenses must not be worn.		
	Skin: Where use can result in skin contact, practice good personal hygiene. Wash hands and other exposed areas with mild soap and water before		
	eating, drinking, smoking and when leaving work.		
	Respiratory: No special respiratory protection is recommended under anticipated conditions of normal use with adequate ventilation.		
8.2.	Hygiene measures: Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet facilities. Promptly remove		
	soiled clothing wash thoroughly before reuse. Shower after work using plenty of soap and water. Emergency eye wash fountains and safety		
	showers should be available in the immediate vicinity of any potential exposure.		

2/4 2010/7/5 下午 01:31

9. Physical and chemical properties: (Activera® 10X)

		·
9.1.	Appearance:	Clear liquid
9.2.	Odor:	Characteristic
9.3.	Color:	Colorless to pale yellow
9.4.	Data relevant to safety:	Avoid strong oxidizing agents, acids and alkalis.
9.5.	Flash point (method used):	Not Applicable
9.6.	Flammable limits:	% LFL: No information -UEL: No information
9.7.	Boiling point:	212 F
9.8.	Specific gravity (25C)	1.02 +/- 0.03 at 25° C
9.9.	Vapor density (air-1):	Not Available
9.10.	Evaporation rate (butyl acetate = 1):	Not Available
9.11.	Solubility in water:	Complete

10. Stability and reactivity: (Activera® 10X)

10.1.	Hazardous reactions:	Hazardous polymerization will not occur.
10.2.	Hazardous decomposition products:	None

11. Toxicological information: (Activera® 10X)

Not Applicable

12. Ecological information: (Activera® 10X)

]	2.1.	Ecotoxicity:	Disperse residue to reduce aquatic harm.
---	------	--------------	------------------------------------------

13. Advice on disposal: (Activera® 10X)

13.1. Contaminated packaging: Should not be considered hazardous waste.	icu nazaruous wasic.
-------------------------------------------------------------------------	----------------------

14. Transport information: (Activera® 10X)

Land Transport - Marine Transport - Air Transport: Other than normal shipping instructions and information given in the MSDS, there are no other specific U.S. Department of Transportation (DOT) regulations governing the shipment of this material.

2010/7/5 下午 01:31

15. Regulatory information: (Activera® 10X)

	······································	
15.1 Labeling - (Hazards Symbols)		
	National Fire Protection Association	
Health = 0 Flammability = 0 Reactivity = 0 Special Hazard - None		
	Hazardous Material Information System (HMIS)	
	Health = 0 Flammability = 0 Reactivity = 0 Personal Protection = D	

16. Other information: (Activera® 10X)

Disclaimer:

The information in this MSDS was obtained from sources, which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the material are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the material.

This MSDS was prepared and is to be used only for this material. If the material is used as a component in another material, this MSDS information may not be applicable.

Version Date: 2010/05/20

2010/7/5 下午 01:31