Intra Multi-Des GA

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY

Product	Intra Multi-Des GA
Supplier	Intracare B.V. Voltaweg 4, 5466 AZ Veghel - The Netherlands Tel.: +31-413-354105, E-mail: info@intracare.nl
Emergency telephone	+31-6 139 422 97 Intracare B.V. - NL

2 HAZARDS IDENTIFICATION

Classification and labeling according to Regulation (EU) 1272/2008 (CLP)

Classification

Met. Corr. 1; Acut tox. 3; Skin Corr. 18; Resp. Sens./Skin Sens. l; Aquatic acute 1; Eye Dam. 1;

Symbols

Corrosive

Flammable

Environmentally dangerous

Signal word Danger

H-statements

H335:	May cause respiratory irritation.
H317:	May cause an allergic skin reaction.
H226:	Flammable liquid and vapour.
H290:	May be corrosive to metals.
H302:	Harmful if swallowed.
H314:	Causes severe skin burns and eye damage.
H400:	Very toxic to aquatic life.

P-statements

P210:	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P260:	Do not breathe dust/fume/gas/mist/vapours/spray.
P271:	Use only in a well-ventilated area.
P273:	Avoid release to the environment.
P280:	Wear protective gloves/protective clothing/eye protection/face protection.
P305+351:	If in eyes, rinse cautiously with water for several minutes.
P302+350:	If on skin, gently wash with plenty of soap and water.
P314:	Get medical advice/attention if you feel unwell.
P391:	Collect spillage.
P403+P233:	Store in a well-ventilated place. Keep container tightly closed.
P501:	Dispose of contents/container to a collection point for special or dangerous wastes.

Classification system

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

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3 INFORMATION ON INGREDIENTS

Formulation information on hazardous ingredients

Number	CAS-number	Chemical name	Concentration
1	7173-51-5	Didecyldimethylammoniumchloride;	10 – 15 % (w/w)
2	111-30-8	Glutaraldehyde;	10 – 15 % (w/w)
3	67-63-0	2-propanol;	10 – 15 % (w/w)
4	68424-85-1	Quaternairy ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides;	15 – 20 % (w/w)

Risks classification on hazardous ingredients

Glutaral ca. 50%	Met. corr.: 1; H290, Ac. tox.: 3 (oral); H301, Ac. tox.: 3 (inhal); H314, Skin corr.: 1B; H317, Resp. sens.: 1; H331, Skin. Sens.: 1; H334, Ac. Eco.: 1; H400.
Didecyldimethylammonium chloride ca. 50%	Ac. Tox.: 3; H301, Skin corr.: 1B; H314, Aq. ac.: 1; H400.
Propan-2-ol ca. 20%	Flam. Liq.: 2; H225, Eye irr.: 2; H319, STOT SE: 3; H336.
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides ca. 50%	Ac. Tox.: 4; H302, Skin corr.: 1B; H314, Aq. ac.: 1; H400.

For the full text of the H-phrases mentioned in this section, see section 16.

4 FIRST AID MEASURES

General information
Immediately remove any clothing soiled by the product. Call a physician immediately. In case of unconsciousness, place patient stably in side position for transportation. Helpers should also consider their own safety.

Inhalation
Move to fresh air. If breathing is irregular or stopped, administer artificial respiration. Call a physician immediately.

Skin
Take off all contaminated clothing immediately. After contact with skin, wash immediately with plenty of soap and water. Call a physician immediately.

Eye
Rinse immediately with plenty of water, also under the eyelids. Conduct this for at least 15 minutes with running water. Call a physician immediately.

Ingestion
Clean mouth with water and then drink plenty of water. Do not induce vomiting. Never give anything by mouth to an unconscious person.

Symptoms
Causes severe irritation of skin and eyes and may cause respiratory irritation.

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5 FIRE-FIGHTING MEASURES

Extinguishing media	Dry powder, water spray or (alcohol resistant) foam.
Special hazards during fire fighting	Heating or fire can release toxic gases.
Protective equipment	Wear a self-contained respiratory protective device and protective clothing.
Additional information	Use water spray to cool unopened containers. Dispose of fire debris and contaminated fire-fighting water in accordance with local disposal regulations.

6 ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear protective equipment to avoid contact with eyes, skin and clothes. Avoid inhalation of fumes/dust/aerosol.
Environmental precautions	Do not release this product into the sanitary sewer system, surface waters or ground waters.
Methods for cleaning up	Contain spillage and collect with non-combustible absorbent material (e.g. sand, earth, diatomaceous earth, vermiculite).

7 HANDLING AND STORAGE

Handling	Avoid contact with skin and eyes. Ensure sufficient air ventilation and/or exhaust in work rooms. Keep receptacles tightly sealed. Prevent formation of aerosols. Wear protective equipment. Keep running water at hand.
Advice on protection against fire and explosion	Keep away from sources of ignition – no smoking. Take precautionary measures against static discharges.
Information on storage	Keep container tightly closed. To maintain product quality, do not store in heat or direct sunlight. Keep in a dry, cool and properly ventilated place. Keep away from sources of ignition – no smoking.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

General protective and hygienic measures	Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Do not inhale gases / fumes / aerosols. Avoid contact with the eyes, skin and clothing.
Respiratory protection	Use suitable respiratory protective device in case of insufficient ventilation or vapour or aerosol formation.

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Hand protection

Use protective gloves (EN 374). The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
Selection of the glove material on consideration of the penetration times, rates of diffusion, mechanical strain and the degradation.

Eye protection

Wear tightly fitting safety goggles and a face shield.

Skin and body protection

Body covering clothes and rubber boots. Choose clothing based on the activity, exposure time and concentrations exposed to.

Maximum exposure limits

67-63-0: propan-2-ol

DFG-MAK/BAT/TRK-Value-List Germany (2002):

Exposure limit(s):	200 ml/m^3, 500 mg/m^3. Damage to fetus unlikely if the occupational exposure limit values are not exceeded.
Short term exposure limit:	Peak-limit category II(2).

SUVA Limit Values Switzerland (2003):

Exposure limit(s):	200 ml/m^3, 500 mg/m^3. Damage to fetus unlikely if the occupational exposure limit values are not exceeded. Biological Monitoring.
Short term exposure limit:	400 ml/m^3, 1000 mg/m^3. 4 times 15 min. per shift.

US ACGIH:

Exposure limit(s):	200 ml/m^3.
Short term exposure limit:	400 ml/m^3.
IDLH value:	2000 ppm.

111-30-8: glutaral

CLV:	0.4 mg/m^3 (MAC NL)
TGG value (8h):	0.08 mg/m^3 (MAC NL)
Sweetwater:	0.0025 mg/l
Seawater:	0.00025 mg/l
Accidental release:	0.006 mg/l
Sediment (sweetwater):	5.27 mg/l
Sediment (seawater):	0.527 mg/kg
Soil:	0.03 mg/kg
Worker:	Long term exposure – local effects, inhalation: 0.25 mg/m^3

7173-51-5: Didecyldimethylammonium chloride

No data.

68424-85-1: Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides

No data.

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9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear liquid
Colour	Colourless to slightly yellow
Odour	Pungent, slightly saponaceous
Boiling point/range	> 80°C
Flash point	36.0°C
Flash point (25% in water)	100°C
Self-igniting:	Product is not self-igniting.
Danger of explosion:	Product is not explosive. However, based on the ingredients it is recommended to keep away from sources of ignition.
pH (100%)	5.0 – 6.0
pH (1%)	6.5 – 7.5
Density (20°C)	0.970 – 1.000 g/cm³
Solubility in water	Fully soluble
Solubility in other solvents	Not determined
Viscosity (20°C)	20 – 50 mPa·s
Freezing point	-7°C

10 STABILITY AND REACTIVITY

Stability	Stable under recommended storage and handling conditions (see section 7).
Thermal decomposition / conditions to avoid	No decomposition if used and stored according to the recommended storage conditions. Avoid sources of ignition.
Materials to avoid	Strong oxidizing agents, reducing agents, nitrogen oxides (NOx), hydrogen chloride gas, carbon oxides.
Dangerous reactions	May form an explosive gas mixture with air.
Dangerous decomposition products	No dangerous products of decomposition if used and stored under the recommended specifications.

11 TOXICOLOGICAL INFORMATION

Acute toxicity
No experimentally found toxicological data are available for this preparation. Of the hazardous substances, the following toxicological information is available:

Didecyldimethylammoniumchloride	LD50 (oral, rat):	238 mg/kg	(OECD guideline 401)
	LD50 (dermal, rabbit):	3342 mg/kg	
	Irritant to skin, not a sensitizer.		
Glutaaral	LD50 (oral, rat):	ca. 158 mg/kg	(OECD guideline 401)
	LD50 (dermal, rat):	>2000 mg/kg	(OECD guideline 402)
	LC50 (inhal, rat 4h):	0.48 mg/kg	(OECD guideline 403)
	Highly toxic if inhaled or swallowed, moderately toxic to skin. Corrosive to skin and eyes. Sensitizing to skin and may cause sensitization of the respiratory tract.		

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Propan-2-ol	LD50 (oral, rat):	> 5000 mg/kg
	LD50 (dermal, rabbit):	> 5000 mg/kg
	LC50 (inhal, rat, 4h):	> 20 mg/l
	Irritant for eyes. May cause irritation of skin and respiratory tract.	
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	LD50 (oral, rat):	ca. 344 mg/kg
	LD50 (dermal, rabbit):	ca. 3340 mg/kg
	Corrosive to skin and eyes. Not a sensitizer.	

Primary irritant effect
Severely irritant to the skin and eyes. May cause respiratory irritations. May be sensitizing.

Sensitization
May have a sensitizing effect on skin and respiratory system (glutaral).

12 ECOLOGICAL INFORMATION

Toxicity to fish (LC50) and Daphnia (EC50)
No experimentally found toxicological data are available for this preparation. Of the hazardous substances, the following toxicological information is available:

Didecyldimethylammoniumchloride	LC50 (96h, Fathead minnow):	0.19 mg/l (US-EPA)
	EC50 (48h, Daphnia magna):	0.062 mg/l (EPA-FIFRA)
	NOEC (14d, earthworms):	≥ 1000 mg/kg (OECD 207)
Glutaral	LC50 (96h, Cyp. variegatus):	39 mg/l
	EC50 (48h, Daphnia magna):	5.75 mg/ml
	EC20 (19d, Terr. plants):	> 450 mg/kg (OECD 208)
Propan-2-ol	LC50 (96h, Fish):	4200 - 9640 mg/l
	EC50 (24h, Daphnia magna):	> 10000 mg/l
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	LC50 (96h, Fathead minnow):	0.28 mg/l
	EC50 (48h, Daphnia magna):	0.016 mg/ml
	LC50 (14d, earthworms):	7070 mg/kg (OECD 207)

Additional toxicological information
No experimentally found toxicological data are available for this preparation. Based on the toxicity data of the hazardous substances, this preparation is considered highly toxic to the aquatic organisms and is considered to be moderately toxicity to terrestrial organisms.

Persistence, degradability and bioaccumulation
All hazardous substances are classified as ‘readily biodegradable’. No accumulation in the environment is expected.

Bioaccumulation
No bioaccumulation of the hazardous substances is expected, based on a low log n-octanol/water for propan-2-ol and glutaral and on the strong tendency to bind to soil and the biodegradation potential of didecyldimethylammoniumchloride and quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides.

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13 DISPOSAL CONSIDERATIONS

Product disposal	Do not release this product into the sanitary sewer system, surface waters or ground waters. Disposal in accordance with official regulations.
Packaging disposal	The product is delivered in a high density polyethylene bottle or can. Rinse the empty packaging with plenty of water prior to disposal. The rinsed packaging can be treated as normal waste. Remainder of this product is chemical waste.
Recommended cleaning agents	Dilute with water, if necessary with cleaning agents. Anionic surfactants can neutralize the effect of the active substances DDAC and ADBAC.

14 TRANSPORT INFORMATION

Chemical description of product	A concentrated liquid: a blend of 2 quaternary ammonium compounds, glutaraldehyde and isopropyl alcohol (see section 3 of this MSDS for the detailed chemical characterization of the product and its (hazardous) substances).
UN number	2920

Land transport ADR/RID (cross-border)

ADR/RID class:	8 Corrosive substances
Danger code (Kemler):	8
UN-Number:	2920
Packaging group:	II
Hazard label:	8 / 3
Description of goods:	UN 2920 Corrosive liquid, flammable, n.o.s., (Glutaraldehyde, isopropanol, quaternarie connection), 8, (3), II (E)
For transport:	Identify with “environmentally dangerous” symbol.

Sea & Air (IMDG & IATA)

IMDG-class	8 Corrosive substances
Packaging group:	II
Danger labelling:	8
Name of product:	UN 2920 Corrosive liquid, flammable, n.o.s., (Glutaraldehyde, isopropanol, quaternary compounds), 8, (3), II (E).
Marine pollutant:	Yes

15 REGULATORY INFORMATION

Special labeling of certain preparations
Use biocides safely. Always read the label and product information before use.

Safety, health and environmental regulations/legislation specific for the mixture
This safety datasheet complies with the requirements of Regulation (EU) 1272/2008 (CLP).

National regulations

Water contamination class: (Germany)	WGK 2 (Self-assessment): water endangering.

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16 OTHER INFORMATION

This information only concerns the above mentioned product and does not need to be valid if used with other product(s) or in any process. The information is to our best present knowledge correct and complete and is given in good faith but without warranty. It remains the user's own responsibility to make sure that the information is appropriate and complete for his special use of this product.

Full text of H-phrases, mentioned in section 3

H226:	Flammable liquid and vapour.
H301:	Toxic if swallowed.
H302:	Harmful if swallowed.
H314:	Causes severe skin burns and eye damage.
H319:	Causes serious eye irritation.
H336:	May cause drowsiness or dizziness.
H400:	Very toxic to aquatic life.

History / revisions

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Changes were made in section:	3