

Safety Data Sheet

according to the Model Work Health and Safety Regulations

Version: 1.0

Date of issue: 28/11/2018 Revision date: 28/11/2018

SECTION 1: Identification: Product identifier and chemical identity

1.1. **Product identifier**

Trade name : Decalcifier I

Product code : 3800400, 3800401, 3800440, 3800441, 3800442, 3800400E, 3800401E, 3800440E, 3800441E

1.2. Other means of identification

No additional information available

Recommended use of the chemical and restrictions on use

: Fixation and decalcification of tissue Recommended use

Restrictions on use : Other uses

Supplier's details

Leica Microsystems Pty Ltd

Suite 2, Level 3, Building A, Talavera Road

Macquarie Park - 2113 Australia

1.5. **Emergency phone number**

Organisation/Company	Emergency number
ChemTrec	800-424-9300
International Calls (call collect)	+1 703-527-3887
Australia 24 Hr Poisons Information Centre	13 11 26

SECTION 2: Hazards identification

2.1. Classification of the hazardous chemical

Classification according to the model Work Health and Safety Regulations (WHS Regulations)

Flammable liquids, Category 2 H225 Skin corrosion/irritation, Category 1A H314

2.2. **Label elements**

Signal word (GHS-AU) : Danger

Hazard statements (GHS-AU) : H225 - Highly flammable liquid and vapour

H314 - Causes severe skin burns and eye damage

Precautionary statements (GHS-AU) : P210 - Keep away from heat, sparks, open flames, hot surfaces. No smoking.

P233 - Keep container tightly closed

P240 - Ground/bond container and receiving equipment

P241 - Use explosion-proof equipment P242 - Use only non-sparking tools

P243 - Take precautionary measures against static discharge

P260 - Do not breathe mist/vapours/spray. P264 - Wash thoroughly after handling

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting

P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse

skin with water/shower

P304+P340 - IF INHALED: remove victim to fresh air and keep at rest in a position comfortable for

breathing

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

if present and easy to do. Continue rinsing

P310 - Immediately call a POISON CENTER or doctor/physician

P321 - Specific treatment (see supplemental first aid instruction on this label)

P363 - Wash contaminated clothing before reuse

P370+P378 - In case of fire: Use dry chemical, foam, or water spray for extinction.

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

P405 - Store locked up

P501 - Dispose of contents/container in accordance with all local/regional/national/international

regulations

Other hazards

No additional information available

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SECTION 3: Composition/information on ingredients

Name	CAS-No.	Compound type	%	Classification according to the model Work Health and Safety Regulations (WHS Regulations)
Formic Acid	64-18-6		< 12	Not classified
methanol	67-56-1		< 2	Flam. Liq. 2, H225
Formaldehyde	50-00-0		< 6	Not classified

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : Call a physician immediately.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. Call a physician

immediately.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing. Call a physician immediately.

First-aid measures after ingestion : Rinse mouth. Do not induce vomiting. Call a physician immediately.

4.2. Symptoms caused by exposure

Symptoms/effects after skin contact : Burns. May cause an allergic skin reaction.

Symptoms/effects after eye contact : Serious damage to eyes.

Symptoms/effects after ingestion : Burns.

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

Other medical advice or treatment : Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

5.2. Special hazards arising from the substance or mixture

Fire hazard : No data available on direct fire hazard.

5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing

apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Only qualified personnel equipped with suitable protective equipment may intervene.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to

section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.

SECTION 7: Handling and storage, including how the chemical may be safely used

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Take

all necessary technical measures to avoid or minimize the release of the product on the workplace.

Provide local exhaust or general room ventilation. Avoid contact with skin and eyes.

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Hygiene measures

: Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Comply with applicable regulations.

Storage conditions : Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters - exposure standards

Formic Acid (64-18-6)		
USA - ACGIH	ACGIH TWA (ppm)	5 ppm
USA - ACGIH	ACGIH STEL (ppm)	10 ppm
USA - ACGIH	Remark (ACGIH)	URT, eye, & skin irr

methanol (67-56-1)		
USA - ACGIH	ACGIH TWA (ppm)	200 ppm (Methanol; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)
USA - ACGIH	ACGIH STEL (ppm)	250 ppm (Methanol; USA; Short time value; TLV - Adopted Value)

Exposure limit values for the other components

8.2. Monitoring

No additional information available

8.3. Appropriate engineering controls

Appropriate engineering controls : In the United States, refer to OSHA 1910.1048 for requirements for handling of formaldehyde solutions.

8.4. Personal protective equipment

Hand protection : Protective gloves

Eye protection : Safety glasses

Skin and body protection : Wear suitable protective clothing

Respiratory protection : None needed with adequate ventilation. If the occupational exposure limit is exceeded, use an

approved organic vapor respirator. Selection of respiratory protection depends on the contaminant type, form, and concentration. Select in accordance with OSHA 1910.134 or other applicable

regulations and good industrial hygiene practice.

Environmental exposure controls : Avoid release to the environment.

SECTION 9: Physical and chemical properties

Physical state : Liquid
Colour : Colourless
Odour : Pungent

Odour threshold : No data available

pH : 1.3 - 1.9

Relative evaporation rate (butylacetate=1) : No data available Melting point : Not applicable : No data available **Boiling** point Flash point : No data available Auto-ignition temperature : No data available Flammability (solid, gas) : No data available : No data available Vapour pressure Relative density : No data available

Density : 1.1

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Solubility : No data available
Log Pow : No data available
Viscosity : No data available
Explosive properties : No data available
Explosive limits : No data available
Minimum ignition energy : No data available
Fat solubility : No data available

SECTION 10: Stability and reactivity

Chemical stability : Stable under normal conditions.

Possibility of hazardous reactions : No dangerous reactions known under normal conditions of use.

Conditions to avoid : Avoid contact with hot surfaces. Heat.

Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be

produced.

SECTION 11: Toxicological information

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

methanol (67-56-1)	
LD50 oral rat	> 5000 mg/kg (Rat; BASF test; Literature study; 1187-2769 mg/kg bodyweight; Rat; Weight of evidence)
LD50 dermal rabbit	15800 mg/kg (Rabbit; Literature study)
LC50 inhalation rat (mg/l)	85 mg/l/4h (Rat; Literature study)
LC50 inhalation rat (ppm)	64000 ppm/4h (Rat: Literature study)

Skin corrosion/irritation : Causes severe skin burns and eye damage.

pH: 1.3 - 1.9

Serious eye damage/irritation : pH: 1.3 - 1.9
Respiratory or skin sensitisation : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified

Reproductive toxicity : Not classified STOT-single exposure : Not classified STOT-repeated exposure : Not classified Aspiration hazard : Not classified

Decalcifier I	
Density	1.1

SECTION 12: Ecological information

According to the National Code of Practice for the Preparation of Material Safety Data Sheets, Environmental classification information is not mandatory. Information relevant for GHS classification is available on request

12.1. Ecotoxicity

Ecology - general : Before neutralisation, the product may represent a danger to aquatic organisms.

Acute aquatic toxicity : Not classified Chronic aquatic toxicity : Not classified

12.2. Persistence and degradability

Formaldehyde (50-00-0)	
Persistence and degradability	Readily biodegradable in water. No (test)data on mobility of the components available. Photodegradation in the air.
Biochemical oxygen demand (BOD)	0.64 g O₂/g substance

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Formaldehyde (50-00-0)	
Chemical oxygen demand (COD)	1.06 g O ₂ /g substance
ThOD	1.068 g O₂/g substance
BOD (% of ThOD)	0.6
methanol (67-56-1)	
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. Highly mobile in soil.
Biochemical oxygen demand (BOD)	0.6 - 1.12 g O ₂ /g substance
Chemical oxygen demand (COD)	1.42 g O ₂ /g substance
ThOD	1.5 g O₂/g substance
BOD (% of ThOD)	0.8 (Literature study)

12.3. Bioaccumulative potential

Formaldehyde (50-00-0)	
Log Pow	See section 12.1 on ecotoxicology
Bioaccumulative potential	Bioaccumulation: not applicable.
methanol (67-56-1)	
BCF fish 1	See section 12.1 on ecotoxicology
Log Pow	See section 12.1 on ecotoxicology
Log Koc	See section 12.1 on ecotoxicology
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).

12.4. Mobility in soil

Formaldehyde (50-00-0)	
Log Pow	See section 12.1 on ecotoxicology
methanol (67-56-1)	
Surface tension	0.023 N/m (20 °C)
Log Pow	See section 12.1 on ecotoxicology
Log Koc	See section 12.1 on ecotoxicology

12.5. Other adverse effects

Ozone : Not classified

Other adverse effects : No additional information available

SECTION 13: Disposal considerations

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: Transport information

14.1. UN number

UN-No. (IMDG) : 1760 UN-No. (IATA) : 1760

14.2. Proper Shipping Name - Addition

Proper Shipping Name (IMDG) : CORROSIVE LIQUID, N.O.S.
Proper Shipping Name (IATA) : Corrosive liquid, n.o.s.

14.3. Transport hazard class(es)

IMDG

Transport hazard class(es) (IMDG) : 8
Danger labels (IMDG) : 8



IATA

Transport hazard class(es) (IATA) : 8
Hazard labels (IATA) : 8

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14.4. Packing group

Packing group (IMDG) : II
Packing group (IATA) : II

14.5. Environmental hazards

Marine pollutant : No

14.6. Special precautions for user

Specific storage requirement : No data available
Shock sensitivity : No data available

14.7. Additional information

Other information : No supplementary information available

Transport by road and rail

Not applicable

Transport by sea

UN-No. (IMDG) : 1760 Special provisions (IMDG) : 274 Limited quantities (IMDG) : 1L Excepted quantities (IMDG) : E2 Packing instructions (IMDG) : P001 IBC packing instructions (IMDG) : IBC02 Tank instructions (IMDG) : T11 Tank special provisions (IMDG) : TP2, TP27

EmS-No. (Fire) : F-A - FIRE SCHEDULE Alfa - GENERAL FIRE SCHEDULE
EmS-No. (Spillage) : S-B - SPILLAGE SCHEDULE Bravo - CORROSIVE SUBSTANCES

Stowage category (IMDG) : B

Properties and observations (IMDG) : Causes burns to skin, eyes and mucous membranes.

Air transport

UN-No. (IATA) : 1760 PCA Excepted quantities (IATA) : E2 PCA Limited quantities (IATA) : Y840 PCA limited quantity max net quantity (IATA) : 0.5L PCA packing instructions (IATA) : 851 PCA max net quantity (IATA) : 1L CAO packing instructions (IATA) : 855 CAO max net quantity (IATA) : 30L Special provisions (IATA) : A3 ERG code (IATA) : 8L

14.8. Hazchem or Emergency Action Code

Hazchemcode : Not applicable

SECTION 15: Regulatory information

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

No additional information available

15.2. International agreements

No additional information available

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SECTION 16: Any other relevant information		
Revision date	: 28/11/2018	
Classification:		
Flam. Liq. 2	H225	
Skin Corr. 1A	H314	
Full text of H-statements:		
Flam. Liq. 2	Flammable liquids, Category 2	
Skin Corr. 1A	Skin corrosion/irritation, Category 1A	
H225	Highly flammable liquid and vapour	
H314	Causes severe skin burns and eye damage	

SDS Australia Leica

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product

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