

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

1.1 Product identifier

Name of product: System cleaning phase, DOSIMYCO™ kit
Code: 227-40304-58

1.2 Relevant identified uses of the substance or mixture and use to be recommended

Identified use: in vitro diagnostic

Sector of use: SU20 Health Service, SU24 Scientific research and development

Chemical product category: PC21 Laboratory chemicals

Process category: PROC15 Use of substance at small scale in laboratories.

1.3 Information concerning the supplier Safety Data Sheet

Manufacturer/supplier:

ALSACHIM SAS
160 rue Tobias Stimmer
67400 ILLKIRCH - France
Tél. : +33 (0) 390 402.200
Fax : +33 (0) 390 402 199
E-Mail : contact@alsachim.com

1.4 Emergency telephone number

Alsachim: +33 (0) 390 402.200
Poison center Strasbourg: +33 (0) 388 373 737

SECTION 2: Hazards Identification

2.1 Classification of the substance or mixture

Regulation (EC) N°1272/2008 of the European parliament and of the Council

Flammable liquid Category 3

Acute oral toxicity Category 3

Acute dermal toxicity Category 3

Acute inhalation Toxicity Category 3

Specific Target Organ Toxicity (single exposure) - Optic nerve. Category 1

2.2 Label elements

Regulation (EC) N°1272/2008 of the European parliament and of the Council

Hazard pictograms:



Signal word: DANGER

Hazard statements:

H226 - Highly flammable liquid and vapor
H301 - Toxic if swallowed
H311 - Toxic in contact with skin
H331 - Toxic if inhaled
H370 - Causes damage to organs (Optic Nerve)

Precautionary statements

P210 – Keep away from heat/sparks/open flames/hot surfaces. - No smoking
P280 - Wear protective gloves/ protective clothing
P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician
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 to fresh air and keep at rest in a position comfortable for breathing
P311 - Call a POISON CENTER or doctor/ physician

2.3 Other hazards

Does not meet the criteria for PBT or vPvB pursuant to Commission Regulation (EU) N°1907/2006, Annex XIII.

SECTION 3: Composition / Information on Ingredients

3.2 Mixtures

Component	CAS-No	EC-No.	Weight %	CLP Classification - Regulation (EC) No 1272/2008
Methyl alcohol	67-56-1	200-659-6	50	Flam. Liq. 2 (H225) Acute Tox. 3 (H301) Acute Tox. 3 (H311) Acute Tox. 3 (H331) STOT SE 1 (H370)
Water	7732-18-5	EEC No. 231-791-2	50	

Components

Component	Reach Registration Number
Methyl alcohol	01-2119433307-44

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General information

Never give anything by mouth to an unconscious person. Call a poison center or a doctor/physician. If possible show this safety data sheet. Remove any clothing soiled by the product. Symptoms of poisoning may even occur after several hours; therefore, medical observation for at least 48 hours after the accident is needed.

After inhalation

Personal protection for the first aider.
Take affected person out of danger area and lay down.
In case of irregular breathing or respiratory arrest provide artificial respiration.
Consult a doctor/medical aid.

After skin contact

Immediately rinse with plenty of water.

After eye contact

Rinse opened eye for several minutes. Consult a doctor if pain, blinking or redness persist.

After swallowing

Rinse mouth with water. Do not induce vomiting. Give nothing to drink. Call poison center.

4.2 Most important symptoms and effects, both acute and delayed

Drowsiness
Dizziness
Spasms
Headache
Nausea
Tiredness

4.3 Indication of any immediate medical attention and special treatment

No further relevant information available

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media: CO₂, powder or water spray
Unsuitable extinguishing media: water with full jets

5.2 Specific hazards arising from the substance or mixture

In case of fire, the following can be released:
Carbon monoxide (CO)
Formaldehyde (CH₂O)

5.3 Advice for firefighters

Cool containers with water spray
Prevent fire-fighting water from entering surface water or groundwater
Wear complete protective clothing including self-contained breathing apparatus.

SECTION 6: Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.
Wear protective equipment. Keep un protected persons away.
Keep away from ignition sources.

6.2 Environmental precautions

Do not allow to enter sewers/surface or ground water.

6.3 Methods and materials for containment and cleaning up

Absorb with liquid-binding material (sand, diatomite, universal binders).
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.

6.4 Reference to other sections

Handling: see section 7
Personal protection equipment: see section 8
Disposal: see section 13.

SECTION 7: Handling and Storage

7.1 Precautions for safe handling

Do not drink, eat or smoke when handling this product.
Wash hands and other exposed areas before drinking, eating or smoking.
Ensure good ventilation at the work place.

7.2 Conditions for safe storage, including any incompatibilities

Store only in the original container. Keep container tightly sealed.
Store in a well-ventilated area at +18°C to +30°C. Protect from heat and direct sunlight.
Storage class: 3

7.3 Specific end use (s)

The mixture is a reagent for determination of the parameters stated on the label. Comply with the instruction manual.

SECTION 8: Exposure Controls / Personal Protection

Additional information about design of technical facilities: no further data, see 7.

8.1 Control parameters

List source(s): **EU** - Commission Directive 2006/15/EC of 7 February 2006 establishing a second list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Directives 91/322/EEC and 2000/39/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

Component	European Union
Methyl alcohol	TWA: 200 ppm 8 hr TWA: 260 mg/m ³ 8 hr Skin

8.2 Exposure controls

Engineering Measures

Ensure that eyewash stations and safety showers are close to the workstation location.
Ensure adequate ventilation, especially in confined areas. Use explosion-proof electrical/ventilating/lighting/equipment.
Wherever possible, engineering control measures such as the isolation or enclosure of the process, the introduction of process or equipment changes to minimize release or contact, and the use of properly designed ventilation systems, should be adopted to control hazardous materials at source

Personal protective equipment

Eye Protection Goggles (European standard - EN 166)

Hand Protection Protective gloves

Skin and body protection Long sleeved clothing

Inspect gloves before use.

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. (Refer to manufacturer/supplier for information)

Ensure gloves are suitable for the task: Chemical compatibility, Dexterity, Operational conditions, User susceptibility, e.g. sensitization effects, also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion.

Remove gloves with care avoiding skin contamination.

Respiratory Protection When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

To protect the wearer, respiratory protective equipment must be the correct fit and be used and maintained properly

Large scale/emergency use: Use a NIOSH/MSHA or European Standard EN 136 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced

Recommended Filter type: Particulates filter conforming to EN 143

Small scale/Laboratory use: Use a NIOSH/MSHA or European Standard EN 149:2001 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced

Recommended half mask: Particle filtering: EN149:2001

When RPE is used a face piece Fit Test should be conducted

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Fluid
Form	Colorless
Color	Characteristic
Odor:	Not determined
Odor threshold:	Not determined
pH value	Not determined
Change in condition	Not determined
Melting point:	>64.5°C
Boiling point:	25°C
Flash point:	Not applicable
Flammability (solid, gaseous):	> 440°C
Ignition temperature:	Not determined
Decomposition temperature:	Product is not self-igniting
Self-ignition:	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
Danger of explosion:	Explosion limits:
	Lower:
	Upper:
	> 6 Vol %
	< 50 Vol %
Vapor pressure:	Not determined
Density:	Not determined

Relative density:	Not determined
Vapor density:	Not determined
Evaporation density:	Not determined
Solubility/miscibility in water:	Fully miscible
Partition coefficient (n-octanol/water):	Not determined
Viscosity	
Dynamic:	Not determined
Kinematic:	Not determined

9.2 Other information

No further other relevant information available

SECTION 10: Stability and Reactivity

10.1 Reactivity

Fumes may form an explosive mixture with air

10.2 Chemical stability

No decomposition if used according to specifications

10.3 Possibility of hazardous reactions

Forms explosive gas mixture with air
Develops toxic gases/fumes
Develops readily flammable gases/fumes
Reacts with alkaline metals
Reacts with oxidizing agents
Reacts with acids
Reacts with earth alkaline metals

10.4 Conditions to avoid

Heating

10.5 Incompatible materials

Various plastics, magnesium, zinc alloys

10.6 Hazardous Decomposition Products

Poisonous gases/vapours
Carbon monoxide
Formaldehyde

SECTION 11: Toxicological information

11.1 Information on toxicological effects

(a) acute toxicity;

Oral Category 3

Dermal Category 3

Inhalation Category 3

ALSACHIM a Shimadzu Group Company	Safety Data Sheet Trade name: System cleaning phase DOSIMYCO	Version 01 11/06/2019
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Toxicology data for the components

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Methyl alcohol	Calc. ATE 60 mg/kg LD50 > 1187 – 2769 mg/kg (Rat)	Calc. ATE 60 mg/kg LD50 = 17100 mg/kg (Rabbit)	Calc. ATE 0.6 mg/L (vapours) or 0.5 mg/L (mists) LC50 = 128.2 mg/L (Rat) 4 h
Water			

(b) skin corrosion/irritation; No data available

(c) serious eye damage/irritation; No data available

(d) respiratory or skin sensitization;

Respiratory No data available

Skin No data available

(e) germ cell mutagenicity; No data available

(f) carcinogenicity; No data available

There are no known carcinogenic chemicals in this product

(g) reproductive toxicity; No data available

(h) STOT-single exposure; Category 1

Results / Target organs Optic nerve.

(i) STOT-repeated exposure; No data available

Target Organs None known.

(j) aspiration hazard; No data available

Symptoms / effects, both acute and delayed; Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Aquatic toxicity:

Component	Freshwater Fish	Water Flea	Freshwater Algae	Microtox
Methyl alcohol	Pimephales promelas: LC50 > 10000 mg/L 96h	EC50 > 10000 mg/L 24h		EC50 = 39000 mg/L 25 min EC50 = 40000 mg/L 15 min EC50 = 43000 mg/L 5 min

12.2. Persistence and degradability

Persistence is unlikely, based on information available.

12.3. Bioaccumulative potential Bioaccumulation is unlikely

Component	log Pow	Bioconcentration factor (BCF)
Methyl alcohol	-0.74	10 (fish)

12.4. Mobility in soil The product is water soluble, and may spread in water systems

12.5. Results of PBT and vPvB assessment

No data available for assessment.

12.6. Other adverse effects

Endocrine Disruptor Information This product does not contain any known or suspected endocrine disruptors

Persistent Organic Pollutant This product does not contain any known or suspected substance

Ozone Depletion Potential This product does not contain any known or suspected substance

SECTION 13: Disposal

13.1 Methods of waste treatment

Must not be disposed together with domestic waste. Do not circulate into the main water supply.

Product residues are to be disposed of in compliance with Directive 2008/98 EC on waste and local requirements, e.g. in a suitable incineration plant. Leave chemicals in original containers. Transfer small quantities to approved transport containers. Protect collection receptacles and containers from access by unauthorized parties.

European waste catalog: 15 05 06, laboratory chemicals, consisting of or containing hazardous substances, including mixtures of laboratory chemicals.

Uncleaned packaging: to be disposed of in the same manner as the product.

SECTION 14: Transport Information

14.1 UN number

1986

14.2 Proper shipping name and number

ADR, IATA:

Alcohols, flammable liquid, toxic, n.o.s.

14.3 Classes for traffic hazards

ADR/RID: 3 (6.1)

IMDG: 3 (6.1)

IATA: 3 (6.1)

14.4 Packing group

ADR/RID: II

IMDG: II

ITA: II

14.5 Environmental hazards

Not Applicable

14.6 Special precautions for user

Warning: flammable liquids
Danger code (Kemler): 36

14.7 Transport in bulk in accordance with Annex II of MARPOL 73/78 and the IBC Code

Not Applicable

SECTION 15: Regulatory information

15.1 Safety, health environmental Regulation/ legislation specific to the substance or mixture

International Inventories X = listed.

Component	EINECS	ELINCS	NLP	TSCA	DSL	NDSL	PICCS	ENCS	IECSC	AICS	KECL
Methyl alcohol	200-659-6			X	X		X	X	X	X	X
Ammonium formate	208-753-9			X	X		X	X	X	X	X
Water	231-791-2			X	X		X		X	X	X

Component	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements
Methyl alcohol	500 tonne	5000 tonne

National Regulations

Component	Germany - Water Classification (VwVwS)	Germany - TA-Luft Class
Methyl alcohol	WGK 1	
Ammonium formate	WGK 1	

Component	France - INRS (Tables of occupational diseases)
Methyl alcohol	Tableaux des maladies professionnelles (TMP) - RG 84

Take note of Control of Substances Hazardous to Health Regulations (COSHH) 2002 and 2005 Amendment

15.2 Chemical safety assessment

Chemical Safety Assessment/Reports (CSA/CSR) are not required for mixtures

SECTION 16: Other Information

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

16.1 Acronyms and abbreviations

ADR : Accord européen sur le transport des marchandises dangereuses par Route
 IMDG: International Maritime Code for Dangerous Goods
 DOT: US Department of Transportation
 IATA: International Air Transport Association
 GHS: Globally Harmonized System of Classification and Labelling of Chemicals
 LC50 : Lethal concentration, 50 percent
 LD50 : Lethal dose, 50 percent
 EC: Effective concentration
 IC: Inhibitory concentration
 NOEC: No observed effect level concentration
 OECD: Organization for Economic Co-operation and Development
 IUCLID: International Uniform Chemical Information Database

16.2 Training hints

Users should be informed, instructed and educated appropriately.

16.3 Reasons for revision

Update of flammable liquid category, update of H&P statements, update of section 8, 11,12,15.