

Printing date 08/06/2014

Reviewed on 08/06/2014

1 Identification

- · Product identifier
- · Trade name: V 1
- · Application of the substance / the mixture

Dry-cleaning

Spotting agent, stain remover

- · Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

SEITZ GmbH

Gutenbergstrasse 3

65830 Kriftel / Germany

Tel. + 49(0) 6192-9948-0

Fax + 49(0) 6192-9948-99

msds@seitz24.com

www.seitz24.com

· Information department:

CHEM-TEL Inc.

1305 North Florida Ave

Tampa Florida 33602

· Emergency telephone number: 1-800-255-3924

2 Hazard(s) identification

· Classification of the substance or mixture



GHS02 Flame

Flam. Liq. 3 H226 Flammable liquid and vapour.



GHS05 Corrosion

Eye Dam. 1 H318 Causes serious eye damage.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

STOT SE 3 H336 May cause drowsiness or dizziness.

- · Label elements
- · GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

· Hazard pictograms







GHS02 GHS05 GHS07

- · Signal word Danger
- · Hazard-determining components of labeling:

benzenesulfonic acid, C10-13-alkyl derivs., sodium salts cyclohexanone

acetic acid n-butylester

(Contd. on page 2)



Printing date 08/06/2014 Reviewed on 08/06/2014

Trade name: V 1

(Contd. of page 1)

· Hazard statements

H226 Flammable liquid and vapour.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H336 May cause drowsiness or dizziness.

· Precautionary statements

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P280 Wear protective gloves / eye protection. P261 Avoid breathing mist/vapours/spray.

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. P403+P233 Store in a well-ventilated place. Keep container tightly closed.

· Hazard description:

· WHMIS classification

B2 - Flammable liquid

D2B - Toxic material causing other toxic effects



- · Classification system
- · NFPA ratings (scale 0-4)



Health = 2Fire = 3Reactivity = 0

· HMIS-ratings (scale 0-4)



Health = 2Fire = 3Reactivity = 0

- · Other hazards
- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.

3 Composition/information on ingredients

· Chemical characterization: Mixtures

· CAS-No.	Components:	
123-86-4	acetic acid n-butylester	< 25%
	dipropylen glycol monomethylether	< 25%
68411-30-3	benzenesulfonic acid, C10-13-alkyl derivs., sodium salts	< 15%
108-94-1	cyclohexanone	< 15%
108-65-6	2-methoxy-1-methylethyl acetate	< 10%
108-10-1	4-methylpentan-2-one	< 10%

(Contd. on page 3)



Printing date 08/06/2014 Reviewed on 08/06/2014

Trade name: V 1

(Contd. of page 2)

4 First-aid measures

- · Description of first aid measures
- · General information

Remove casualties from exposure.

Keep unprotected persons away.

Immediately remove any clothing soiled by the product.

· After inhalation

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

In case of unconsciousness place patient stably in side position for transportation.

· After skin contact

Immediately rinse with water.

If skin irritation continues, consult a doctor.

· After eye contact

Rinse opened eye for several minutes under running water. Then consult a doctor.

· After swallowing

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; immediately call for medical help.

· Most important symptoms and effects, both acute and delayed

Headache

Dizziness

Nausea

Unconsciousness

· Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire-fighting measures

- Extinguishing media
- · Suitable extinguishing agents

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam

- · For safety reasons unsuitable extinguishing agents Water with full jet.
- · Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

- · Advice for firefighters
- · Protective equipment:

Do not inhale explosion gases or combustion gases.

Wear self-contained respiratory protective device.

· Additional information

Cool endangered receptacles with water spray.

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Avoid contact with eyes and skin.

Keep away from ignition sources

Ensure adequate ventilation

Do not breathe gases/ vapours.

- Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

(Contd. on page 4)



Printing date 08/06/2014 Reviewed on 08/06/2014

Trade name: V 1

(Contd. of page 3)

Dispose of the collected material according to regulations.

Reference to other sections

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

· Precautions for safe handling

Keep away from heat and direct sunlight.

Avoid contact with eyes and skin.

Ensure good ventilation/exhaustion at the workplace.

Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).

Prevent formation of aerosols.

· Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

Formation of explosive vapour- / air mixture possible.

Protect against electrostatic charges.

Flammable gas-air mixtures may be formed in empty receptacles.

· Conditions for safe storage, including any incompatibilities

- · Storage
- · Requirements to be met by storerooms and receptacles:

Store only in the original receptacle.

Prevent any seepage into the ground.

· Information about storage in one common storage facility:

Store away from foodstuffs.

Store away from oxidizing agents.

Do not store together with alkalis (caustic solutions).

· Further information about storage conditions:

Protect from heat and direct sunlight.

Store in cool, dry conditions in well sealed receptacles.

Store receptacle in a well ventilated area.

Protect from frost.

Time of storage: max. 12 month • Specific end use(s) Dry-cleaning

8 Exposure controls/personal protection

- · Additional information about design of technical systems: No further data; see item 7.
- · Control parameters

· Components with limit values that require monitoring at the workplace:		
123-86-4 acetic acid n-butylester		
PEL (USA)	Long-term value: 710 mg/m³, 150 ppm	
REL (USA)	Short-term value: 950 mg/m³, 200 ppm Long-term value: 710 mg/m³, 150 ppm	
TLV (USA)	Short-term value: 950 mg/m³, 200 ppm Long-term value: 713 mg/m³, 150 ppm	
EL (Canada)	Long-term value: 20 ppm	
EV (Canada)	Short-term value: 950 mg/m³, 200 ppm Long-term value: 710 mg/m³, 150 ppm	

(Contd. on page 5)



Printing date 08/06/2014 Reviewed on 08/06/2014

Trade name: V 1

		(Contd. of pag
	ipropylen glycol monomethylether	
PEL (USA)	Long-term value: 600 mg/m³, 100 ppm Skin	
REL (USA)	Short-term value: 900 mg/m³, 150 ppm Long-term value: 600 mg/m³, 100 ppm Skin	
TLV (USA)	Short-term value: 909 mg/m³, 150 ppm Long-term value: 606 mg/m³, 100 ppm Skin	
EL (Canada)	Short-term value: 150 ppm Long-term value: 100 ppm Skin	
EV (Canada)	Short-term value: 910 mg/m³, 150 ppm Long-term value: 605 mg/m³, 100 ppm	
108-94-1 cyc	ohexanone	
PEL (USA)	Long-term value: 200 mg/m³, 50 ppm	
REL (USA)	Long-term value: 100 mg/m³, 25 ppm Skin	
TLV (USA)	Long-term value: 50 mg/m³, 20 ppm Skin	
EL (Canada)	Short-term value: 50 ppm Long-term value: 20 ppm Skin	
EV (Canada)	Short-term value: 50 ppm Long-term value: 20 ppm Skin	
108-65-6 2-m	ethoxy-1-methylethyl acetate	
	Long-term value: 50 ppm	
EL (Canada)	Short-term value: 75 ppm Long-term value: 50 ppm	
EV (Canada)	Long-term value: 270 mg/m³, 50 ppm	
108-10-1 4-m	ethylpentan-2-one	
	Long-term value: 410 mg/m³, 100 ppm	
REL (USA)	Short-term value: 300 mg/m³, 75 ppm Long-term value: 205 mg/m³, 50 ppm	
TLV (USA)	Short-term value: 307 mg/m³, 75 ppm Long-term value: 82 mg/m³, 20 ppm BEI	
EL (Canada)	Short-term value: 75 ppm Long-term value: 20 ppm IARC 2B	
EV (Canada)	Short-term value: 75 ppm Long-term value: 205 mg/m³, 50 ppm	

JSA -



Printing date 08/06/2014 Reviewed on 08/06/2014

Trade name: V 1

(Contd. of page 5)

· Ingredients with biological limit values:

108-94-1 cyclohexanone

BEI (USA) 80 mg/L

Medium: urine

Time: end of shift at end of workweek

Parameter: 1.2-Cyclohexanediol with hydrolysis (nonspecific, semi-quantitative)

8 mg/L Medium: urine Time: end of shift

Parameter: Cyclohexanol with hydrolysis (nonspecific, semi-quantitative)

108-10-1 4-methylpentan-2-one

BEI (USA) 1 mg/L

Medium: urine Time: end of shift Parameter: MIBK

- · Additional information: The lists that were valid during the creation were used as basis.
- · Exposure controls
- · Personal protective equipment
- · General protective and hygienic measures

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Do not eat, drink, smoke or sniff while working.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Do not inhale gases / fumes / aerosols.

· Breathing equipment:

Ensure good ventilation/exhaustion at the workplace.

Use suitable respiratory protective device in case of insufficient ventilation (exceeding the workplace limit values, formation of aerosols).

· Protection of hands:

Solvent resistant gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

· Material of gloves

PE/EVAL/PE

Butyl rubber, BR

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

- Eye protection: Tightly sealed goggles.
- · Body protection: Solvent resistant protective clothing

USA

(Contd. on page 7)



Printing date 08/06/2014 Reviewed on 08/06/2014

Trade name: V 1

(Contd. of page 6)

9 Physical and chemical propert	ties
Information on basic physical and cl General Information	hemical properties
Appearance: Form: Color: Odor: Odour threshold:	Fluid Yellow Solvent-like No further relevant information available.
· pH-value (100 g/l) at 20 °C (68 °F):	~ 7.0
 Change in condition Melting point/Melting range: Boiling point/Boiling range: 	undetermined undetermined
· Flash point:	32 °C (90 °F) (ASTM D93 c.c.)
· Flammability (solid, gaseous)	No further relevant information available.
· Ignition temperature:	No further relevant information available.
· Decomposition temperature:	No further relevant information available.
· Auto igniting:	Product is not selfigniting.
· Danger of explosion:	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
Explosion limits:Lower:Upper:Oxidizing properties	No further relevant information available. No further relevant information available. No further relevant information available.
· Vapor pressure:	No further relevant information available.
 Density at 20 °C (68 °F): Relative density Vapour density Evaporation rate 	~ 0.95 g/cm3 (ISO 2811) No further relevant information available. No further relevant information available. No further relevant information available.
 Solubility in / Miscibility with Water: 	Not miscible or difficult to mix
· Partition coefficient (n-octanol/wate	r): No further relevant information available.
· Viscosity:dynamic:kinematic:· Other information	No further relevant information available. No further relevant information available. No further relevant information available.

10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Chemical stability

Stable under normal ambient conditions.

No decomposition if used and stored according to specifications.

- · Possibility of hazardous reactions Forms flammable gases / fumes
- · Conditions to avoid

Protect from heat and direct sunlight.

Keep away from ignition sources

· Incompatible materials: Strong oxidizing agents

(Contd. on page 8)



Printing date 08/06/2014 Reviewed on 08/06/2014

Trade name: V 1

· Hazardous decomposition products: None if used as directed.

(Contd. of page 7)

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:

toxicity:		
50 values that	are relevant for classification:	
6-4 acetic acid	n-butylester	
LD50	10760 mg/kg (rat) (OECD 423)	
l LD50	> 14112 mg/kg (rabbit) (OECD 402)	
tive LC50 (4h)	23.4 mg/l (rat) (OECD 403)	
34590-94-8 dipropylen glycol monomethylether		
LD50	> 5000 mg/kg (rat)	
l LD50	9500 mg/kg (rabbit)	
tive LC50 (7h)	> 500 mg/l (rat)	
-30-3 benzenes	sulfonic acid, C10-13-alkyl derivs., sodium salts	
LD50	200 - 2000 mg/kg (rat)	
l LD50	> 2000 mg/kg (rat)	
1-1 cyclohexan	none	
LD50	1530 mg/kg (rat)	
l LD50	948 mg/kg (rabbit)	
tive LC50 (4h)	10.7 mg/l (rat)	
5-6 2-methoxy-	1-methylethyl acetate	
LD50	> 5000 mg/kg (rat)	
l LD50	> 2000 mg/kg (rat)	
tive LC50 (4h)	> 5 mg/l (rat)	
0-1 4-methylpe	ntan-2-one	
LD50	2080 mg/kg (rat) (OECD 401)	
al LD50	> 2000 mg/kg (rab) (OECD 402)	
tive LC50 (4h)	8.2 - 16.4 mg/l (rat) (OECD 403)	
t t a t	50 values that i-4 acetic acid	

- Primary irritant effect:
- · on the skin: Irritant effect.
- on the eye: Strong irritant with the danger of severe eye injury.
- · Sensitization: No sensitizing effects known.
- · Additional toxicological information:
- · Carcinogenic categories

· IARC (Int	ernational Agency for Research on Cancer)
100 01 1	ay alah ay an an a

108-94-1 cyclohexanone

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· NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.

(Contd. on page 9)



Printing date 08/06/2014 Reviewed on 08/06/2014

Trade name: V 1

(Contd. of page 8)

- Persistence and degradability No further relevant information available.
- Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes:

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

- Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
- · Recommendation:

Class

Contaminated adsorbent, soil, water must be disposed of in a permitted hazardous waste management facility. Recovered products may be reused, reprocessed or incinerated or must be treated in a permitted hazardous waste management facility. It is your duty to dispose of the chemical materials and/or their containers in accordance with the Clean Air Act, The Clean Water Act, RCRA, as well as applicable Federal, State, and local Regulations regarding disposal.

UN-Number DOT, ADR, IMDG, IATA	UN1993
UN proper shipping name	
DOT	Flammable liquids, n.o.s. (Butyl acetates, Methyl isobutyl ketone)
ADR	1993 Flammable liquids, n.o.s. (Butyl acetates, Methyl isobutyl ketone)
IMDG, IATA	FLAMMABLE LIQUID, N.O.S. (BUTYL ACETATES METHYL ISOBUTYL KETONE)
Transport hazard class(es)	
DOT	
Class	3 Flammable liquids
Label	3
ADR	

3 (F1) Flammable liquids

(Contd. on page 10)



Printing date 08/06/2014 Reviewed on 08/06/2014

Trade name: V 1

	(Contd. of page 9
· Label	3
· IMDG, IATA	
· Class	3 Flammable liquids
· Label	3
Packing groupDOT, ADR, IMDG, IATA	III
· Environmental hazards:	Not applicable.
· Special precautions for user	Warning: Flammable liquids
Danger code (Kemler):EMS Number:	30 F-E, <u>S-E</u>
 Transport in bulk according to Annex MARPOL73/78 and the IBC Code 	II of Not applicable.
· Transport/Additional information:	
· DOT	
· Quantity limitations	On passenger aircraft/rail: 60 L
	On cargo aircraft only: 220 L
· ADR · Excepted quantities (EQ)	Code: E1
· Excepted quantities (Ew)	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
· IMDG	
Limited quantities (LQ)	5L Code: 54
· Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 30 ml
· UN "Model Regulation":	UN1993, Flammable liquids, n.o.s. (Butyl acetates,
_	Methyl isobutyl ketone), 3, III

15 Regulatory information

- · Canadian substance lists
- · Canadian domestic substance list (DSL):

All ingredients are listed.

· Canadian ingredient disclosure list (limit 0.1%):

108-94-1 cyclohexanone

· Canadian ingredient disclosure list (limit 1%):

123-86-4	acetic acid n-butylester
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34590-94-8 dipropylen glycol monomethylether

68411-30-3 benzenesulfonic acid, C10-13-alkyl derivs., sodium salts

108-10-1 4-methylpentan-2-one

(Contd. on page 11)



Printing date 08/06/2014 Reviewed on 08/06/2014

Trade name: V 1

(Contd. of page 10)

· Sara

· Section 355 (extremely hazardous substances):

None of the ingredients is listed.

· Section 313 (specific toxic chemical listings):

108-10-1 4-methylpentan-2-one

· TSCA (Toxic Substances Control Act):

All ingredients are listed.

· Proposition 65

· Chemicals known to cause cancer:

108-10-1 4-methylpentan-2-one

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

108-10-1 4-methylpentan-2-one

· Cancerogenity categories

· EPA (Environmental Protection Agency)

108-10-1 4-methylpentan-2-one

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· TLV (Threshold Limit Value established by ACGIH)

108-94-1 cyclohexanone

A3

· MAK (German Maximum Workplace Concentration)

108-94-1 cyclohexanone

3B

· NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

- · National regulations
- · Other regulations, limitations and prohibitive regulations
- · Please note:

The informationherein is presented in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied is given. Regulatory requirements are subject to change and may differ from one location to another. It is the buyers responsibility to ensure that its activities comply with Federal, State or provincial, and local laws. Thefollowing specific information is made for the purpose of complying with numerous laws and regulations.

Other information: The product has been designed for professional use only.

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.

- · Date of preparation / last revision 08/06/2014 / 1
- Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

(Contd. on page 12)



(Contd. of page 11)

Printing date 08/06/2014 Reviewed on 08/06/2014

Trade name: V 1

HMIS: Hazardous Materials Identification System (USA)

WHMIS: Workplace Hazardous Materials Information System (Canada)

WHMIS: Workplace Hazardous Materials Information System (Canada)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
Flam. Liq. 3: Flammable liquids, Hazard Category 3
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1
STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3

* Data compared to the previous version altered.