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1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name : B 2381

Other means of Identification : Liquid Calcium Zinc Compound

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the : Manufacture of plastics products

Substance/Mixture Polymer additive

Stabilizer

Restrictions on Use : None known

1.3 Details of the supplier of the safety data sheet

Company : Baerlocher Production USA LLC

5890 Highland Ridge Drive

Cincinnati, OH 45232

Telephone : Day 330-602-1528, 330-602-1531 or -1530

Night 513-207-1620 or 513-604-2327

E-mail address : Hotline.PS@baerlocher.com Responsible/issuing person : Product Safety Department

1.4 Emergency telephone number (0 - 24 h)

Tel.: 800-424-9300 USA or 703-527-3887

2. Hazards identification

2.1 Classification of the substance or mixture

Skin irritation, Category 2 H315: Causes skin irritation.

Skin sensitisation, Category 1 H317: May cause an allergic skin reaction. Specific target organ toxicity - single exposure, Category 3, Central nervous

system

Aspiration hazard, Category 1 H304: May be fatal if swallowed and enters

airways.

Chronic aquatic toxicity, Category 2 H411: Toxic to aquatic life with long lasting effects.

Harmful R65: Harmful: may cause lung damage if

swallowed.

Sensitising R43: May cause sensitisation by skin contact.

Irritant R38: Irritating to skin.

Dangerous for the environment R51/53: Toxic to aquatic organisms, may cause

long-term adverse effects in the aquatic

environment.

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2.2 Label elements

Hazard pictograms







Signal word : Danger

Hazard statements : H304 May be fatal if swallowed and enters

airways.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction. H336 May cause drowsiness or dizziness.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements : **Prevention:**

P261 Avoid breathing dust/ fume/ gas/ mist/

vapours/ spray.

P273 Avoid release to the environment.

P280 Wear protective gloves.

Response:

P301 + P310 IF SWALLOWED: Immediately call a

POISON CENTER or doctor/ physician.

P312 Call a POISON CENTER or doctor/

physician if you feel unwell.

P331 Do NOT induce vomiting.

2.3 Other hazards

The product is combustible.

May produce an allergic reaction.

3. Composition/information on ingredients

3.2 Mixtures

Chemical nature : Preparation containing zinc carboxylate in organic solvent.

Hazardous components

Chemical Name	CAS-No.	Concentration [%]
Distillates (petroleum), hydrotreated light	64742-47-8	>= 25*
Triisotridecyl phosphite	68610-62-8	>= 25*
Naphtha (petroleum), hydrotreated heavy	64742-48-9	< 10*
Dibenzoyl methane	120-46-7	< 10*
Zinc compounds	Trade Secret*	< 10*
Triisodecyl phosphite	25448-25-3	< 10*

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*Trade Secret – The specific chemical identity and/or exact percentage of composition has been withheld as a trade secret.

4. First aid measures

4.1 Description of first aid measures

General advice : Remove and wash contaminated clothing before re-use.

If inhaled : Move to fresh air.

In case of skin contact : Wash off with soap and plenty of water.

Take off contaminated clothing and shoes immediately.

In case of eye contact : Rinse with plenty of water.

If swallowed : Consult a doctor and show this safety datasheet.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms : No information available.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically.

5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Water spray

Foam

Carbon dioxide (CO2)

Dry chemical

Sand

Unsuitable extinguishing

media

: High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during

firefighting

: Smoke and fumes, toxic.

5.3 Advice for firefighters

for firefighters

Special protective equipment : In the event of fire, wear self-contained breathing apparatus.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Remove all sources of ignition.

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Ensure adequate ventilation. Avoid contact with skin and eyes. Use personal protective equipment.

6.2 Environmental precautions

Environmental precautions : Do not flush into surface water or sanitary sewer system.

Avoid subsoil penetration.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel,

acid binder, universal binder, sawdust).

Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For personal protection see section 8.

7. Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Take precautionary measures against static discharges.

Keep away from sources of ignition - No smoking.

Provide sufficient air exchange and/or exhaust in work rooms.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

: Store at room temperature in the original container. Keep container tightly closed in a dry and well-ventilated

place.

Further information on

storage conditions

: Handle in accordance with good industrial hygiene and safety

practice.

German storage class : 10 Combustible liquids

7.3 Specific end use(s)

: Consult the technical guidelines for the use of this

substance/mixture.

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8. Exposure controls/personal protection

8.1 Control parameters

		Regulatory Limits		Recomme	nded Limits	
				Cal/OSHA		
		OSH	A PEL	PEL	NIOSH REL	ACGIH TLV
				8-hour TWA (ST) STEL	Up to 10- hour TWA (ST) STEL	8-hour TWA (ST) STEL
Substance	CAS No.	ppm	mg/m ³	(C) Ceiling	(C) Ceiling	(C) Ceiling
Distillates (Petroleum), hydrotreated light	64742-47-8					200 mg/m ³
Dibenzoyl methane	120-46-7					
Respirable fraction			5	5 mg/m³		3 mg/m ³

8.2 Exposure controls

Engineering measures

Local exhaust

Personal protective equipment

Respiratory protection : In case of insufficient ventilation:

Protective mask against solvent vapours (A2 Filter)

Hand protection : protective gloves acc. to EN 374, e.g. neoprene, thickness:

min. 0,7 mm

Eye protection : Safety glasses

Skin and body protection : Long sleeved clothing

Rubber apron

Hygiene measures : When using do not eat or drink.

Do not smoke.

Wash hands before breaks and at the end of workday.

Shower or bathe at the end of working. Keep working clothes separately.

Protective measures : antistatic shoes

Environmental exposure controls

General advice : Do not flush into surface water or sanitary sewer system.

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Avoid subsoil penetration.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : liquid

Colour : yellowish Odour : characteristic Ha : no data available

Boiling point/boiling range : 237 - 277 °C, Value refers to the solvent.

Flash point $: > 100 \, ^{\circ}\text{C}$

Lower explosion limit : ca. 0,5 %(V), 25 °C, Value refers to the solvent. Upper explosion limit : ca. 4,6 %(V), 25 °C, Value refers to the solvent. Vapour pressure : 0,03 hPa, 20 °C, Value refers to the solvent.

Density : 0,8 - 1,0 g/cm3 Water solubility : slightly soluble Partition coefficient: n-: no data available

octanol/water

Auto-ignition temperature : ca. 243 °C, Value refers to the solvent.

Ignition temperature : no data available Viscosity, dynamic : no data available : no data available Viscosity, kinematic Odor Threshold : No data available Melting/Freezing Point : No data available **Evaporation Rate** : No data available Flammability : No data available Vapor Density : No data available **Decomposition Temperature** : No data available

9.2 Other information

No data available

10. Stability and reactivity

10.1 Reactivity

Stable at normal ambient temperature and pressure.

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10.2 Chemical stability

No decomposition if stored normally.

10.3 Possibility of hazardous reactions

Hazardous reactions : Vapours may form explosive mixture with air.

10.4 Conditions to avoid

Conditions to avoid : Sources of ignition

10.5 Incompatible materials

Materials to avoid : Strong oxidizing agents

10.6 Hazardous decomposition products

Hazardous decomposition

products

: No decomposition if used as directed.

11. Toxicological information

11.1 Information on toxicological effects

Product

Acute oral toxicity : Acute toxicity estimate: > 2.000 mg/kg, Calculation method

Acute inhalation toxicity : Acute toxicity estimate: > 20 mg/l, 4 h, vapour, Calculation

method

Acute dermal toxicity : Acute toxicity estimate: > 2.000 mg/kg, Calculation method

Components:

Distillates (petroleum), hydrotreated light:

Acute oral toxicity : LD50: > 5.000 mg/kg, rat, OECD Test Guideline 420, GLP:

yes, Based on available data, the classification criteria are not

met.

Acute inhalation toxicity : LC50: > 5,28 mg/l, 4 h, rat, vapour, OECD Test Guideline 403,

GLP: yes, Based on available data, the classification criteria

are not met.

Acute dermal toxicity : LD50: > 2.000 mg/kg, rabbit, OECD Test Guideline 402, GLP:

yes, Based on available data, the classification criteria are not

met.

Skin corrosion/irritation : rabbit, Result: irritating, standardised international/national

methodology, 24 h, GLP: yes

Serious eye damage/eye

irritation

: rabbit, Result: not irritating, standardised international/national

methodology, GLP: yes, Based on available data, the

classification criteria are not met.

Respiratory or skin

sensitisation

: Skin sensitisation

: Buehler Test, guinea pig, Result: not sensitising, OECD Test

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	Guideline 406, GLP: yes, Based on available data, the classification criteria are not met.
	: Respiratory sensitisation
	: Based on available data, the classification criteria are not met
Germ cell mutagenicity	
Genotoxicity in vitro	: Mutagenicity (Salmonella typhimurium - reverse mutation assay), Bacteria, Result: negative, OECD Test Guideline 471
	: In vitro gene mutation study in mammalian cells, mouse lymphoma cells, Result: negative, OECD Test Guideline 476, GLP: yes, Based on available data, the classification criteria are not met.
Genotoxicity in vivo	: Genotoxicity in vivo, rat, intraperitoneally, OECD Test Guideline 478, Result: negative
	: Genotoxicity in vivo, mouse, intraperitoneally, OECD Test Guideline 478, Result: negative
	: Genotoxicity in vivo, mouse, Inhalation, OECD Test Guideline 478, Result: negative
	: Mutagenicity (in vivo mammalian bone-marrow cytogenetic test, chromosomal analysis), rat, intraperitoneally, OECD Tes Guideline 475, GLP: yes, Based on available data, the classification criteria are not met.
Carcinogenicity	: mouse, Skin contact, OECD Test Guideline 451, GLP: yes, Based on available data, the classification criteria are not me
Reproductive toxicity	: One-generation reproduction toxicity test, rat, Oral
	: Screening for reproductive/developmental toxicity, rat, Skin contact, NOAEL: > 494 mg/kg, OECD Test Guideline 421, Based on available data, the classification criteria are not me
Teratogenicity	: rat, Inhalation, OECD Test Guideline 414
	 rat, Oral, OECD Test Guideline 414, Based on available data the classification criteria are not met.
STOT - single exposure	: Assessment: May cause drowsiness or dizziness.
STOT - repeated exposure	: rat, Oral, Exposure time: <= 90 d, Based on available data, the classification criteria are not met.
STOT - repeated exposure	 rat / mouse, Inhalation, Exposure time: 90 d, OECD Test Guideline 413, Based on available data, the classification criteria are not met.
STOT - repeated exposure	: rat, Dermal, Exposure time: 28 d, OECD Test Guideline 410, GLP: yes, Based on available data, the classification criteria are not met.
Aspiration toxicity	: May be fatal if swallowed and enters airways.

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Further information	: CMR effects, Carcinogenicity, Mutagenicity, Reproductive toxicity, Hazard assessment, Category 1A, Category 1B, Based on available data, the classification criteria are not met.
	: Likely route of exposure, Inhalation, Ingestion, Skin contact
Triisotridecyl phosphite :	
Acute oral toxicity	: LD50: > 2.000 mg/kg, rat, OECD Test Guideline 425, GLP: yes, Based on available data, the classification criteria are not met.
Acute inhalation toxicity	: Read-across (Analogy)
	: LC50: > 12,6 mg/l, 1 h, rat, dust/mist, OECD Test Guideline 403, GLP: yes, Based on available data, the classification criteria are not met.
Acute dermal toxicity	: Read-across (Analogy)
	: LD50: > 5.000 mg/kg, rabbit, OECD Test Guideline 402, GLP: yes, Based on available data, the classification criteria are not met.
Skin corrosion/irritation	: rabbit, Result: not irritating, OECD Test Guideline 404, 4 h, GLP: yes, Based on available data, the classification criteria are not met.
Serious eye damage/eye irritation	: rabbit, Result: not irritating, OECD Test Guideline 405, GLP: yes, Based on available data, the classification criteria are not met.
Respiratory or skin sensitisation	: Skin sensitisation
	: LLNA, mouse, Result: slight sensibilisation, OECD Test Guideline 429, GLP: yes
	: Respiratory sensitisation, Based on available data, the classification criteria are not met.
Germ cell mutagenicity	
Genotoxicity in vitro	: Mutagenicity (Salmonella typhimurium - reverse mutation assay), Bacteria, Result: negative, OECD Test Guideline 471, GLP: yes
	: Read-across (Analogy)
	: DNA repair-suspension assay, Bacteria, Result: negative, No information available., GLP: yes, Based on available data, the classification criteria are not met.
Genotoxicity in vivo	: In vivo micronucleus test, mouse, Oral, 2d, OECD Test Guideline 474, GLP: yes, Result: negative, Based on available data, the classification criteria are not met.
Carcinogenicity	: Based on available data, the classification criteria are not met.
Reproductive toxicity	: Read-across (Analogy)
	: Screening for reproductive/developmental toxicity, rat, Oral,

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	Test period: 8 weeks, NOAEL: 1.000 mg/kg, OECD Test Guideline 422, GLP: yes, Based on available data, the classification criteria are not met.
Teratogenicity	: Read-across (Analogy)
	: rat, Test period: 8 weeks, Oral, NOAEL: 1.000 mg/kg, standardised international/national methodology, GLP: yes, Based on available data, the classification criteria are not me
STOT - single exposure	: Remarks: Based on available data, the classification criteria are not met.
STOT - repeated exposure	: Read-across (Analogy)
STOT - repeated exposure	: rat, Oral, NOAEL: 1.000 mg/kg, OECD Test Guideline 422, GLP: yes, Based on available data, the classification criteria are not met.
Aspiration toxicity	: Based on available data, the classification criteria are not me
Further information	: CMR effects, Carcinogenicity, Mutagenicity, Reproductive toxicity, Hazard assessment, Category 1A, Category 1B, Based on available data, the classification criteria are not me
	: Likely route of exposure, Inhalation, Ingestion, Skin contact
Naphtha (petroleum), hydro Acute oral toxicity	 cotreated heavy: : Read-across (Analogy) : LD50: > 5.000 mg/kg, rat, OECD Test Guideline 401, GLP:
	otreated heavy : : Read-across (Analogy)
	 cotreated heavy: : Read-across (Analogy) : LD50: > 5.000 mg/kg, rat, OECD Test Guideline 401, GLP: yes, Based on available data, the classification criteria are not
Acute oral toxicity	 c) treated heavy: : Read-across (Analogy) : LD50: > 5.000 mg/kg, rat, OECD Test Guideline 401, GLP: yes, Based on available data, the classification criteria are no met.
Acute oral toxicity	 Ptreated heavy: Read-across (Analogy) LD50: > 5.000 mg/kg, rat, OECD Test Guideline 401, GLP: yes, Based on available data, the classification criteria are no met. Read-across (Analogy) LC50: > 5 mg/l, 4 h, rat, vapour, OECD Test Guideline 403, GLP: yes, Based on available data, the classification criteria
Acute oral toxicity	 Ptreated heavy: Read-across (Analogy) LD50: > 5.000 mg/kg, rat, OECD Test Guideline 401, GLP: yes, Based on available data, the classification criteria are no met. Read-across (Analogy) LC50: > 5 mg/l, 4 h, rat, vapour, OECD Test Guideline 403, GLP: yes, Based on available data, the classification criteria are not met.
Acute oral toxicity Acute inhalation toxicity	 Ptreated heavy: Read-across (Analogy) LD50: > 5.000 mg/kg, rat, OECD Test Guideline 401, GLP: yes, Based on available data, the classification criteria are no met. Read-across (Analogy) LC50: > 5 mg/l, 4 h, rat, vapour, OECD Test Guideline 403, GLP: yes, Based on available data, the classification criteria are not met. Read-across (Analogy) LC50: > 5 mg/l, 8 h, rat, vapour, OECD Test Guideline 403, GLP: yes, Based on available data, the classification criteria
Acute oral toxicity Acute inhalation toxicity	 Ptreated heavy: Read-across (Analogy) LD50: > 5.000 mg/kg, rat, OECD Test Guideline 401, GLP: yes, Based on available data, the classification criteria are no met. Read-across (Analogy) LC50: > 5 mg/l, 4 h, rat, vapour, OECD Test Guideline 403, GLP: yes, Based on available data, the classification criteria are not met. Read-across (Analogy) LC50: > 5 mg/l, 8 h, rat, vapour, OECD Test Guideline 403, GLP: yes, Based on available data, the classification criteria are not met.
Acute oral toxicity	 Ptreated heavy: Read-across (Analogy) LD50: > 5.000 mg/kg, rat, OECD Test Guideline 401, GLP: yes, Based on available data, the classification criteria are not met. Read-across (Analogy) LC50: > 5 mg/l, 4 h, rat, vapour, OECD Test Guideline 403, GLP: yes, Based on available data, the classification criteria are not met. Read-across (Analogy) LC50: > 5 mg/l, 8 h, rat, vapour, OECD Test Guideline 403, GLP: yes, Based on available data, the classification criteria are not met. Read-across (Analogy) LD50: >= 3.160 mg/kg, rabbit, OECD Test Guideline 402, GLP: yes, Based on available data, the classification criteria
Acute oral toxicity Acute inhalation toxicity Acute dermal toxicity	 Ptreated heavy: Read-across (Analogy) LD50: > 5.000 mg/kg, rat, OECD Test Guideline 401, GLP: yes, Based on available data, the classification criteria are not met. Read-across (Analogy) LC50: > 5 mg/l, 4 h, rat, vapour, OECD Test Guideline 403, GLP: yes, Based on available data, the classification criteria are not met. Read-across (Analogy) LC50: > 5 mg/l, 8 h, rat, vapour, OECD Test Guideline 403, GLP: yes, Based on available data, the classification criteria are not met. Read-across (Analogy) LD50: >= 3.160 mg/kg, rabbit, OECD Test Guideline 402, GLP: yes, Based on available data, the classification criteria are not met.

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irritation	
	: rabbit, Result: not irritating, OECD Test Guideline 405, GLP: yes, Based on available data, the classification criteria are not met.
Respiratory or skin sensitisation	: Skin sensitisation, Read-across (Analogy)
	: Maximisation Test, guinea pig, Result: not sensitising, OECD Test Guideline 406, GLP: no, Based on available data, the classification criteria are not met.
	 Respiratory sensitisation, Based on available data, the classification criteria are not met.
Germ cell mutagenicity	
Genotoxicity in vitro	: Read-across (Analogy)
	 In vitro gene mutation study in mammalian cells, mouse lymphoma cells, Result: negative, OECD Test Guideline 476, GLP: no
	: Read-across (Analogy)
	: Mutagenicity (Salmonella typhimurium - reverse mutation assay), Bacteria, Result: negative, OECD Test Guideline 471, GLP: yes
	: Read-across (Analogy)
	 Mutagenicity (in vitro mammalian cytogenetic test), Human lymphocytes, Result: negative, OECD Test Guideline 473, GLP: yes, Based on available data, the classification criteria are not met.
Genotoxicity in vivo	: Read-across (Analogy)
	: In vivo micronucleus test, mouse, Oral, OECD Test Guideline 474, GLP: yes, Result: negative
	: Read-across (Analogy)
	 in vivo assay, rat, Inhalation, OECD Test Guideline 478, GLP: no, Result: negative, Based on available data, the classification criteria are not met.
Carcinogenicity	: Read-across (Analogy)
	 rat / mouse, Inhalation, standardised international/national methodology, Based on available data, the classification criteria are not met.
Reproductive toxicity	: Read-across (Analogy)
	: Screening for reproductive/developmental toxicity, rat, Oral, Test period: 46 days, NOAEL: 1.000 mg/kg, OECD Test Guideline 421
	: Read-across (Analogy)
	: Screening for reproductive/developmental toxicity, rat,

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	Inhalation, Test period: 8 weeks, NOAEL: 300 ppm, OECD Test Guideline 421, GLP: no	
	: Read-across (Analogy)	
	: One-generation reproduction toxicity test, rat, Oral, NOAEL: 1.500 mg/kg, OECD Test Guideline 415	
	: Read-across (Analogy)	
	: Screening for reproductive/developmental toxicity, rat, Oral, NOAEL: 1.000 mg/kg, OECD Test Guideline 422, GLP: yes, Based on available data, the classification criteria are not me	,
Teratogenicity	: Read-across (Analogy)	
	: rat, Inhalation, NOAEL: >= 900 ppm, standardised international/national methodology, GLP: no, Based on available data, the classification criteria are not met.	
STOT - single exposure	: Remarks: Based on available data, the classification criteria are not met.	
STOT - repeated exposure	: Read-across (Analogy)	
STOT - repeated exposure	: rat, Oral, NOAEL: 5.000 mg/kg, OECD Test Guideline 408, GLP: yes	
STOT - repeated exposure	: Read-across (Analogy)	
STOT - repeated exposure	 rat, Inhalation, NOAEL: 200 ppm, OECD Test Guideline 413 GLP: yes, Based on available data, the classification criteria are not met. 	
Aspiration toxicity	: May be fatal if swallowed and enters airways.	
Further information	: CMR effects, Carcinogenicity, Mutagenicity, Reproductive toxicity, Hazard assessment, Category 1A, Category 1B, Based on available data, the classification criteria are not me	et.
	: Likely route of exposure, Inhalation, Ingestion, Skin contact	
Dibenzoyl methane :		
Acute oral toxicity	: LD50: > 2.000 mg/kg, rat, OECD Test Guideline 423, GLP: yes, Based on available data, the classification criteria are n met.	ot
Acute inhalation toxicity	: study scientifically unjustified	
Acute dermal toxicity	: LD50: > 2.000 mg/kg, rat, OECD Test Guideline 402, GLP: yes	
Skin corrosion/irritation	: in vitro assay, Result: not irritating, OECD Test Guideline 43 GLP: yes, Based on available data, the classification criteria are not met.	
Serious eye damage/eye irritation	: rabbit, Result: not irritating, OECD Test Guideline 405, Base on available data, the classification criteria are not met.	ed

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Respiratory or skin

sensitisation

: Skin sensitisation

: LLNA, mouse, Result: Sensitising, OECD Test Guideline 429,

GLP: yes

: Respiratory sensitisation

: Not classified due to lack of data.

Germ cell mutagenicity

Genotoxicity in vitro : Mutagenicity (Salmonella typhimurium - reverse mutation

assay), Bacteria, Result: negative, OECD Test Guideline 471,

GLP: yes

: In vitro gene mutation study in mammalian cells, mouse

lymphoma cells, Result: positive, OECD Test Guideline 476,

GLP: yes

: Mutagenicity (in vitro mammalian cytogenetic test), CHL, Result: positive, OECD Test Guideline 487, GLP: yes, Based

on available data, the classification criteria are not met.

Carcinogenicity : Not classified due to lack of data.

Reproductive toxicity : Not classified due to lack of data.

Teratogenicity : Not classified due to lack of data.

STOT - single exposure : Remarks: Not classified due to lack of data.

STOT - repeated exposure

: Not classified due to lack of data.

Aspiration toxicity

: Not classified due to lack of data.

Further information : CMR effects, Carcinogenicity, Mutagenicity, Reproductive

toxicity, Hazard assessment, Category 1A, Category 1B, Based on available data, the classification criteria are not met.

: Likely route of exposure, Inhalation, Ingestion, Skin contact

Zinc Compounds:

Acute oral toxicity : LD50: > 2.000 mg/kg, rat, standardised international/national

methodology, Based on available data, the classification

criteria are not met.

Acute inhalation toxicity : Not classified due to lack of data.

Acute dermal toxicity : Read-across (Analogy)

: LD50: > 2.000 mg/kg, rat, OECD Test Guideline 402, Based

on available data, the classification criteria are not met.

Skin corrosion/irritation : Read-across (Analogy)

: rabbit, Result: slight irritation, OECD Test Guideline 404, GLP:

yes, Based on available data, the classification criteria are not

met.

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Serious eye damage/eye irritation	: Read-across (Analogy)
	: rabbit, Result: irritating, OECD Test Guideline 405, GLP: yes
Respiratory or skin sensitisation	: Skin sensitisation
	 Read-across (Analogy), Based on available data, the classification criteria are not met.
	: Respiratory sensitisation
	: Based on available data, the classification criteria are not met.
Germ cell mutagenicity	
Genotoxicity in vitro	: Read-across (Analogy)
	: Based on available data, the classification criteria are not met.
Carcinogenicity	: Read-across (Analogy)
	: Based on available data, the classification criteria are not met.
Reproductive toxicity	: Read-across (Analogy)
	: Suspected of damaging the unborn child.
STOT - single exposure	: Remarks: Based on available data, the classification criteria are not met.
STOT - repeated exposure	: Read-across (Analogy), Based on available data, the classification criteria are not met.
Aspiration toxicity	: Based on available data, the classification criteria are not met.
Further information	: CMR effects, Carcinogenicity, Mutagenicity, Reproductive toxicity, Hazard assessment, Category 1A, Category 1B, Based on available data, the classification criteria are not met.
	: Likely route of exposure, Inhalation, Ingestion, Skin contact
-	
Triisodecyl phosphite : Acute oral toxicity	: LD50: 13.800 mg/kg, rat, OECD Test Guideline 401, Based on available data, the classification criteria are not met.
Acute inhalation toxicity	: Read-across (Analogy)
	 LC50: > 12,6 mg/l, 1 h, rat, dust/mist, OECD Test Guideline 403, GLP: yes, Based on available data, the classification criteria are not met.
Acute dermal toxicity	: Read-across (Analogy)
	: LD50: > 5.000 mg/kg, rabbit, OECD Test Guideline 402, GLP: yes, Based on available data, the classification criteria are not met.
Skin corrosion/irritation	 rabbit, Result: slight irritation, standardised international/national methodology, 24 h, Based on available

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	data, the classification criteria are not met.	
Serious eye damage/eye irritation	: rabbit, Result: not irritating, standardised internation methodology, Based on available data, the classific criteria are not met.	
Respiratory or skin sensitisation	: LLNA, mouse, Result: Sensitising, OECD Test Guid GLP: yes	leline 429,
Germ cell mutagenicity		
Genotoxicity in vitro	: Read-across (Analogy)	
	: Mutagenicity (Salmonella typhimurium - reverse mu assay), Bacteria, Result: negative, OECD Test Guid GLP: yes	
	: Read-across (Analogy)	
	: DNA repair-suspension assay, Bacteria, Result: neg standardised international/national methodology, Gl Based on available data, the classification criteria a	LP: yes,
Genotoxicity in vivo	: Read-across (Analogy)	
	: In vivo micronucleus test, mouse, Oral, OECD Test 474, GLP: yes, Result: negative, Based on available data, the classification criteria a	
Carcinogenicity	: Based on available data, the classification criteria a	re not met.
Reproductive toxicity	: Screening for reproductive/developmental toxicity, r Test period: 8 weeks, NOAEL: 1.000 mg/kg, OECD Guideline 422, GLP: yes, Based on available data, classification criteria are not met.	Test
Teratogenicity	 rat, Oral, NOAEL: 1.000 mg/kg, OECD Test Guideli GLP: yes, Based on available data, the classificatio are not met. 	
STOT - single exposure	: Remarks: Based on available data, the classification are not met.	n criteria
STOT - repeated exposure	: rat, Oral, NOAEL: 1.000 mg/kg, OECD Test Guideli GLP: yes, Based on available data, the classificatio are not met.	
Aspiration toxicity	: Based on available data, the classification criteria a	re not met.
Further information	: CMR effects, Carcinogenicity, Mutagenicity, Reproc toxicity, Hazard assessment, Category 1A, Categor Based on available data, the classification criteria a	y 1B,
	: Likely route of exposure, Inhalation, Ingestion, Skin	contact

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11.2 Carcinogenicity

Contains no known or suspected carcinogens listed by IARC, NTP or OSHA at or above reportable quantities.

12. Ecological information

12.1 Toxicity

Components:

Distillates (petroleum), hydrotreated light:

: LL50: 2.5 mg/l. 96 h. Oncorhynchus mykiss (rainbow trout). Toxicity to fish

> semi-static test, OECD Test Guideline 203, GLP: yes, Value refered to the Water accumulated fraction (WAF).

Toxicity to daphnia and other

aquatic invertebrates

: EL50: 1,4 mg/l, 48 h, Daphnia magna (Water flea), static test,

OECD Test Guideline 202, GLP: yes,

Value refered to the Water accumulated fraction (WAF). Toxicity to algae : EL50: 1,3 mg/l, 72 h, Pseudokirchneriella subcapitata (green

algae), static test, OECD Test Guideline 201, GLP: yes, Value refered to the Water accumulated fraction (WAF).

: LL50: 677,9 mg/l, 72 h, Tetrahymena pyriformis, QSAR, GLP: Toxicity to bacteria

Toxicity to fish (Chronic

toxicity)

: NOEL: 0,098 mg/l, 28 d, Oncorhynchus mykiss (rainbow

trout), QSAR, GLP: no

Toxicity to daphnia and other

aquatic invertebrates

(Chronic toxicity)

: NOEL: 0,48 mg/l, 21 d, Daphnia magna (Water flea), semi-

static test, OECD Test Guideline 211, GLP: yes,

Value refered to the Water accumulated fraction (WAF).

Ecotoxicology Assessment

Acute aquatic toxicity : Based on available data, the classification criteria are not met.

Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

Triisotridecyl phosphite:

Toxicity to fish

study technically not feasible

Toxicity to daphnia and other

aquatic invertebrates Toxicity to algae

study technically not feasible

study technically not feasible

Toxicity to bacteria

study technically not feasible

Ecotoxicology Assessment

: Based on available data, the classification criteria are not met. Acute aquatic toxicity

: Based on available data, the classification criteria are not met. Chronic aquatic toxicity

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Naphtha (petroleum), hydrotreated heavy:

Toxicity to fish : LL50: > 1.000 mg/l, 96 h, Oncorhynchus mykiss (rainbow

> trout), semi-static test, OECD Test Guideline 203, GLP: yes, Value refered to the Water accumulated fraction (WAF).

Toxicity to daphnia and other

aquatic invertebrates

Toxicity to algae

: EL50: > 1.000 mg/l, 48 h, Daphnia magna (Water flea), static

test. OECD Test Guideline 202. GLP: ves.

Value refered to the Water accumulated fraction (WAF). : NOEL: 1.000 mg/l, 72 h, Pseudokirchneriella subcapitata

(green algae), static test, OECD Test Guideline 201, GLP:

Value refered to the Water accumulated fraction (WAF).

Toxicity to bacteria EL50: > 1.000 mg/l, 48 h, Tetrahymena pyriformis, QSAR,

GLP: no

Toxicity to fish (Chronic

toxicity)

: NOEL: 0,101 mg/l, 28 d, Oncorhynchus mykiss (rainbow

trout), QSAR, GLP: no

Toxicity to daphnia and other

aquatic invertebrates (Chronic toxicity)

: NOEL: 0,176 mg/l, 21 d, Daphnia magna (Water flea), QSAR,

GLP: no

Ecotoxicology Assessment

: Based on available data, the classification criteria are not met. Acute aquatic toxicity

: Based on available data, the classification criteria are not met. Chronic aquatic toxicity

Dibenzoyl methane:

Toxicity to fish : LC50: 11,313 mg/l, 96 h, QSAR

Toxicity to daphnia and other

aquatic invertebrates

: LC50: 7,519 mg/l, 48 h, QSAR

Toxicity to algae : 2,68 mg/l, 96 h, QSAR

Ecotoxicology Assessment

: Based on available data, the classification criteria are not met. Acute aquatic toxicity

Chronic aquatic toxicity : Based on available data, the classification criteria are not met.

Zinc Compounds:

Toxicity to fish

Read-across (Analogy)

LC50: 100 mg/l, 96 h, Cyprinus carpio (Carp), OECD Test

Guideline 203, GLP: yes

Toxicity to daphnia and other

aquatic invertebrates

Read-across (Analogy)

: EC50: 5 mg/l, 48 h, Daphnia magna (Water flea), static test,

OECD Test Guideline 202, GLP: yes

Toxicity to algae

Read-across (Analogy)

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: EC50: 2,72 mg/l, 72 h, Pseudokirchneriella subcapitata (green

algae), static test, OECD Test Guideline 201, GLP: yes

Toxicity to bacteria : IC50: > 100 mg/l, 3 h, activated sludge, static test, OECD Test

Guideline 209

Toxicity to fish (Chronic

toxicity)

Read-across (Analogy)

NOEC: 0,044 - 0,530 mg Zn/L, Fresh water

Read-across (Analogy)

NOEC: 0,025 mg Zn/L, Marine water

Toxicity to daphnia and other

aquatic invertebrates (Chronic toxicity)

Read-across (Analogy)

NOEC: 0,037 - 0,400 mg Zn/L, Fresh water

Read-across (Analogy)

NOEC: 0,0056 - 0,9 mg Zn/L, Marine water

Ecotoxicology Assessment

Acute aquatic toxicity : Based on available data, the classification criteria are not met.

Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.

Triisodecyl phosphite:

Toxicity to fish

Toxicity to daphnia and other

aquatic invertebrates

Toxicity to algae

study technically not feasible

study technically not feasible

study technically not feasible

Toxicity to bacteria

study technically not feasible

Toxicity to fish (Chronic

toxicity)

study technically not feasible

Toxicity to daphnia and other aquatic invertebrates

(Chronic toxicity)

study technically not feasible

Cilionic toxicity)

Ecotoxicology Assessment

Acute aquatic toxicity : Based on available data, the classification criteria are not met.

Chronic aquatic toxicity : Based on available data, the classification criteria are not met.

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12.2 Persistence and degradability

Components:

Distillates (petroleum), hydrotreated light:

Biodegradability : aerobic, 61 %, Result: Readily biodegradable., Exposure time:

28 d, activated sludge, OECD Test Guideline 301 F, GLP: yes

Triisotridecyl phosphite:

Biodegradability : aerobic, 63 %, Result: Inherently biodegradable., Exposure

time: 42 d, activated sludge, OECD Test Guideline 301D,

GLP: yes

Naphtha (petroleum), hydrotreated heavy:

Biodegradability

Read-across (Analogy)

aerobic, 80 %, Result: Readily biodegradable., Exposure time: 28 d, activated sludge, OECD Test Guideline 301 F, GLP: yes

Read-across (Analogy)

aerobic, 69 %, Result: Readily biodegradable., Exposure time:

28 d, Marine water, OECD Test Guideline 306, GLP: no

Read-across (Analogy)

aerobic, > 60 %, Result: Readily biodegradable., Exposure time: 61 d, Soil, OECD Test Guideline 304A, GLP: no

Dibenzoyl methane:

Biodegradability : aerobic, 89 %, Result: Readily biodegradable., Exposure time:

28 d, activated sludge, ISO 9439

Zinc Compounds:

Biodegradability

Read-across (Analogy)

aerobic, 70 %, Result: Readily biodegradable., Exposure time: 28 d, activated sludge, OECD Test Guideline 301D, GLP: yes

Triisodecyl phosphite:

: aerobic, 0,47 %, Result: Not readily biodegradable., Exposure Biodegradability

time: 28 d, activated sludge, OECD Test Guideline 301D

12.3 Bioaccumulative potential

Components:

Distillates (petroleum), hydrotreated light:

Bioaccumulation

no data available

Triisotridecyl phosphite:

Bioaccumulation

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not applicable

Naphtha (petroleum), hydrotreated heavy:

Bioaccumulation

study scientifically unjustified

Dibenzoyl methane:

Bioaccumulation

study scientifically unjustified

Zinc Compounds:

Bioaccumulation

Read-across (Analogy), This substance is not considered to

be bioaccumulating.

Triisodecyl phosphite:

Bioaccumulation

study scientifically unjustified

12.4 Mobility in soil

Components:

Distillates (petroleum), hydrotreated light:

Mobility : QSAR, Predicted distribution to environmental compartments,

Triisotridecyl phosphite:

QSAR, Predicted distribution to environmental compartments, Mobility

Soil

Naphtha (petroleum), hydrotreated heavy:

Mobility : QSAR, Predicted distribution to environmental compartments,

Air, Sediment

Dibenzoyl methane:

Mobility : no data available

Zinc Compounds:

Mobility : not applicable

Triisodecyl phosphite:

Mobility : QSAR, Predicted distribution to environmental compartments,

Soil. Sediment

12.5 Results of PBT and vPvB assessment

Components:

Distillates (petroleum), hydrotreated light:

Assessment : Based on available data, the classification criteria are not met.

Triisotridecyl phosphite:

Assessment : Based on available data, the classification criteria are not met.

Naphtha (petroleum), hydrotreated heavy:

Assessment : Based on available data, the classification criteria are not met.

Dibenzoyl methane:

Assessment : Based on available data, the classification criteria are not met.

Zinc Compounds:

Assessment : Based on available data, the classification criteria are not met.

Triisodecyl phosphite:

Assessment : Based on available data, the classification criteria are not met.

12.6 Other adverse effects

Distillates (petroleum), hydrotreated light:



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Further information No information available.

Triisotridecyl phosphite:

Further information : No information available.

Naphtha (petroleum), hydrotreated heavy:

Further information : No information available.

Dibenzoyl methane:

Further information No information available.

Zinc Compounds:

: No information available. Further information

Triisodecyl phosphite:

Further information No information available.

13. Disposal considerations

13.1 Waste treatment methods

Product : Dispose of contents/container in accordance with

local/regional/national/international/regulations.

14. Transport information

14.1 UN number

DOT

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

14.2 Proper shipping name

DOT

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

14.3 Transport hazard class

DOT

Not dangerous goods

IMDG

Not dangerous goods

IATA



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Not dangerous goods

14.4 Packing group

DOT

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

14.5 Environmental hazards

DOT

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

14.6 Special precautions for user

See this safety data sheet chapter 6. - 8.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Remarks : No transport according to Annex II of MARPOL 73/78 and the

IBC Code

15. Regulatory information

Section 313 Supplier Notification (USA)

This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372:

Component	CAS/313 Category Code	Wt (%)
Zinc compounds	N982	2.7

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National Legislation:

Registration Status:

EINECS : listed

TSCA : listed

DSL : listed

AICS : listed

ENCS : Not listed

ECL : listed

PICCS : Not listed

CHINA : listed

16. Other information

Date of Preparation or last change: 12.06.2015

HMIS Rating (USA)

Health : 2
Flammability : 1
Reactivity : 1
Personal Protection : G

HTS # : 3812.30.9000

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Full text of R-phrases

R10 Flammable.

R23/24/25 Toxic by inhalation, in contact with skin and if swallowed.

R34 Causes burns.

R36/38 Irritating to eyes and skin.

R38 Irritating to skin.

R43 May cause sensitisation by skin contact.

R48/20/21/22 Harmful: danger of serious damage to health by prolonged exposure

through inhalation, in contact with skin and if swallowed.

R51 Toxic to aquatic organisms.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the

aquatic environment.

R52 Harmful to aquatic organisms.

R53 May cause long-term adverse effects in the aquatic environment.

R63 Possible risk of harm to the unborn child.
R65 Harmful: may cause lung damage if swallowed.
Vapours may cause drowsiness and dizziness.

Elemmoble liquid and vangur

R68 Possible risk of irreversible effects.

Full text of H-Statements

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T220	riammable liquid and vapour.
H301	Toxic if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H336	May cause drowsiness or dizziness.
H341	Suspected of causing genetic defects.
H361d	Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The 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 process, unless specified in the text.

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