

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Product form

: Mixture

Trade name

: NICKEL GRADE EZ BREAK®

1.2. Relevant identified uses of the substance or mixture and uses advised against**1.2.1. Relevant identified uses**

Use of the substance/mixture

: Lubricant

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

LA-CO Industries Europe S.A.S.

Parc Industriel de la Plaine de

l'Ain - Allée des Combes.

01150.BLYES.France.

Phone: +33 (0)4 74 46 23 23

Fax: +33 (0)4 74 46 23 29

E-mail: info@eu.laco.com

Web: http://www.markal.com

1.4. Emergency telephone number

Emergency number

: 24-hour emergency: CHEMTREC- U.S. : 1-800-424-9300 International: +1-703-527-3887

EU Member State	Officieel adviesorgaan	Adres	Noodnummer
AUSTRIA	Vergiftungsinformationszentrale (Poisons Information Centre)	Allgemeines Krankenhaus Waehringer Geurtel 18-20 1090 Wien	+43 1 406 43 43
BELARUS	The Belarus Republican Poisons Centre	Kizhevatova str. 58 220115 Minsk	+375 (0)17 201 9158
BELGIUM	Centre Anti-Poisons/Antigifcentrum c/o Hôpital Central de la Base - Reine Astrid	Rue Bruyn 1 B -1120 Bruxelles/Brussel	+32 70 245 245
BULGARIA	Национален токсикологичен информационен център National Clinical Toxicology Centre, Emergency Medical Institute "Pirogov"	21 Tottleben Boulevard 1606 SOFIA	+359 2 9154 409
CROATIA	Poisons Control Centre Institute of Medical Research & Occupational Health	Ksaverska Cesta 2 P.O. Box 291 HR-10000 Zagreb	+385 1 234 8342
CZECH REPUBLIC	Toxikologické informační středisko Clinic For Occupational Medicine, 1st Medical Faculty, Charles University	Na Bojišti 1 120 00 Praha 2	+42 2 2491 9293 +42 2 2491 5402
DENMARK	Giftlinjen Bispebjerg Hospital	Bispebjerg Bakke 23, 60, 1 DK-2400 København NV	+45 82 12 12 12 +45 35 31 55 55
ESTONIA	Mürgistusteabekeskus	Gonsiori 29 15027 Tallinn	+372 626 93 90
FINLAND	Myrkytystietokeskus	P.O.B 340 (Haartmaninkatu 4) HUS SF - 00029 Helsinki	+358 9 471 977
FRANCE	ORFILA		+33 1 45 42 59 59
GERMANY	Berliner Betrieb für Zentrale Gesundheitliche Aufgaben	Oranienburger Strasse 285 13437 Berlin	+49 30 19240
GERMANY	Informations und Beratungszentrum für Vergiftungsfälle	Kirrberger Straße, Gebäude 9 D-66421 Homburg/Saar	+49 6841 19240
GERMANY	Beratungstelle bei Vergiftungen, Klinische Toxikologie und Beratungsstelle bei Vergiftungen	Langenbeckstrasse 1 55131 Mainz	+49 6131 19240
GREECE	Poisons Information Centre	11527 Athens	+30 10 779 3777
HUNGARY	Országos Kémiai Biztonsági Intézet (National Institute of Chemical Safety) Egészségügyi Toxikológiai Tájékoztató Szolgálat (Health Toxicological Information Service)	1437 Budapest PO Box 839 1097 Budapest, Nagyvárád tér 2	+36 80 20 11 99
ICELAND	Eitrunarmiðstöðin	Eitrunarmiðstöðin 108 Reykjavík	+354 543 22 22
IRELAND	National Poisons Information Centre	Beaumont Hospital PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2166
LATVIA	Valsts Toksikoloģijas centra Saindēšanās un zāļu informācijas centrs	2 Hipocrate Street LV 1038 Riga	+371 67 04 24 73

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LITHUANIA	Apsinuodijimų kontrolės ir informacijos biuras	Siltnamiu 29 2043 Vilnius	+370 5 236 20 52/+370 687 53 378
MALTA	Medicines & Poisons Info Office	Mater Dei Hospital, Msida MSD 2090 Malta	25450000
NETHERLANDS	Nationaal Vergiftigingen Informatie Centrum National Institute for Public Health and the Environment, NB this service is only available to health professionals	Huispostnummer B.00.118, PO Box 85500 3508 GA Utrecht	+31 30 274 88 88
PORTUGAL	Centro de Informação Antivenenos Instituto Nacional de Emergência Médica (INEM)	Rua Almirante Barroso, 36 1000-013 Lisboa	808 250 143 (for use only in Portugal), +351 21 330 3284
ROMANIA	Biroul pentru Regulamentul Sanitar International si Informare Toxicologica	Str. Dr. Leonte Anastasievici Nr.1-3, Sector 5 50463 Bucuresti	+40 21 318 36 06
SLOVAKIA	Národné toxikologické informačné centrum University Hospital Bratislava	Limbová 5 833 05 Bratislava	+421 2 54 77 4 166
SPAIN	Servicio de Información Toxicológica Instituto Nacional de Toxicología, Departamento de Madrid	Calle Luis Cabrera 9 E-28002 Madrid	+34 91 562 04 20
SWEDEN	Giftinformationscentralen Swedish Poisons Information Centre, Karolinska Hospital	Box 60 500 SE-171 76 Stockholm	+46 8 33 12 31 (International) 112 (National)
SWITZERLAND	Centre Suisse d'Information Toxicologique	Freiestrasse 16 Postfach CH-8028 Zurich	+41 44 251 51 51 (International) 145 (National)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Skin Sens. 1 H317

Carc. 2 H351

STOT RE 1 H372

Full text of classification categories and H statements : see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



GHS07

GHS08

Signal word (CLP)

: Danger

Hazardous ingredients

: nickel

Hazard statements (CLP)

: H317 - May cause an allergic skin reaction
H351 - Suspected of causing cancer
H372 - Causes damage to organs through prolonged or repeated exposure

Precautionary statements (CLP)

: P201 - Obtain special instructions before use
P202 - Do not handle until all safety precautions have been read and understood
P260 - Do not breathe dust, fume
P264 - Wash hands thoroughly after handling
P270 - Do not eat, drink or smoke when using this product
P272 - Contaminated work clothing should not be allowed out of the workplace
P280 - Wear eye protection, protective gloves
P302+P352 - IF ON SKIN: Wash with plenty of water
P314 - Get medical advice/attention if you feel unwell
P321 - Specific treatment (see First aid measures on this label)
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention
P362+P364 - Take off contaminated clothing and wash it before reuse
P405 - Store locked up
P501 - Dispose of contents/container to an authorised waste collection point

2.3. Other hazards

PBT: not yet assessed

vPvB: not yet assessed

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SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Comments : Only component with health hazards above the applicable thresholds and/or Exposure Limit values are shown.

Exact concentrations are withheld as trade secret.

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
nickel	(CAS No) 7440-02-0 (EC no) 231-111-4 (EC index no) 028-002-00-7	15 – 25	Carc. 2, H351 STOT RE 1, H372 Skin Sens. 1, H317
aluminium powder (pyrophoric)	(CAS No) 7429-90-5 (EC no) 231-072-3 (EC index no) 013-001-00-6	1 – 5	Pyr. Sol. 1, H250 Water-react. 2, H261
Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts	(CAS No) 68649-42-3 (EC no) 272-028-3	0 – 1	Eye Irrit. 2, H319 Aquatic Acute 1, H400 Aquatic Chronic 3, H412
Phosphoric acid	(CAS No) 7664-38-2 (EC no) 231-633-2 (EC index no) 015-011-00-6	< 1	Skin Corr. 1B, H314

Name	Product identifier	Specific concentration limits
Phosphoric acid	(CAS No) 7664-38-2 (EC no) 231-633-2 (EC index no) 015-011-00-6	(10 ≤ C < 25) Eye Irrit. 2, H319 (10 ≤ C < 25) Skin Irrit. 2, H315 (C ≥ 25) Skin Corr. 1B, H314

Full text of R- and H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If you feel unwell, seek medical advice.

First-aid measures after skin contact : Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

First-aid measures after eye contact : In case of contact, immediately flush eyes with plenty of water.

First-aid measures after ingestion : Induce vomiting. Get medical advice/attention.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries : Causes damage to organs through prolonged or repeated exposure.

Symptoms/injuries after inhalation : Inhalation of vapours may cause respiratory irritation.

Symptoms/injuries after skin contact : May cause an allergic skin reaction. May cause slight irritation.

Symptoms/injuries after ingestion : Diarrhea. Nausea.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water fog. Dry chemical. Carbon dioxide. Foam.

Unsuitable extinguishing media : None known.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Burning produces irritating, toxic and noxious fumes.

Explosion hazard : Product is not explosive.

5.3. Advice for firefighters

Firefighting instructions : Keep upwind.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection. Use self-contained breathing apparatus. EN469.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Avoid contact with skin and eyes.

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6.1.1. For non-emergency personnel

Protective equipment : Chemical goggles or safety glasses. Wear suitable gloves.
Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Chemical goggles or safety glasses. Wear suitable gloves.
Emergency procedures : Ventilate area. Stop leak if safe to do so.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment : Do not allow minor leaks or spills to accumulate on walking surfaces. Sweep or shovel into suitable containers.
Methods for cleaning up : Following recovery, flush area with water. Clean surface thoroughly to remove residual contamination.

6.4. Reference to other sections

Section 13: disposal information. Section 7: safe handling. Section 8: personal protective equipment.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust, fume. Avoid contact with skin and eyes.
Hygiene measures : Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash your hands immediately after handling this product, and once again before leaving the workplace.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep container closed when not in use.
Incompatible products : Oxidizer. Strong acids.
Incompatible materials : Heat sources.
Prohibitions on mixed storage : Incompatible materials.
Storage area : Store in dry, cool, well-ventilated area.

7.3. Specific end use(s)

Lubricant.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

nickel (7440-02-0)		
Belgium	Limit value (mg/m ³)	0.1 mg/m ³ (composés solubles, en Ni) 0.2 mg/m ³ (composés insolubles inorganiques, en Ni) 1 mg/m ³ (métal)
Finland	Huomautus (FI)	(Ni)
France	Note (FR)	(Nickel métal)
Hungary	AK-érték	0.1 mg/m ³ (NIKKEL SZERVETLEN és VÍZOLDHATÓ VEGYÜLETEI (Ni-reszámítva))
Slovakia	NPHV (priemerná) (mg/m ³)	0.5 mg/m ³
Slovakia	Upozornenie (SK)	S
Sweden	Anmärkning (SE)	(totaldamm, S, 1)
United Kingdom	WEL TWA (mg/m ³)	0.5 mg/m ³
Switzerland	VME (mg/m ³)	0.5 mg/m ³
Switzerland	Remark (CH)	(einatembarer Staub)
aluminium powder (pyrophoric) (7429-90-5)		
Belgium	Limit value (mg/m ³)	1 mg/m ³
Belgium	Remark (BE)	(Aluminium, métal et composés insolubles, fraction alvéolaire)
Denmark	Grænseværdie (kortvarig) (mg/m ³)	4 mg/m ³ (respirabel) 10 mg/m ³ (total)
Finland	HTP-arvo (8h) (mg/m ³)	2 mg/m ³
Finland	Huomautus (FI)	(Alumiini, liukoiset yhdisteet)
France	VME (mg/m ³)	5 mg/m ³ (pulvérulent) 10 mg/m ³ (métal)

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aluminium powder (pyrophoric) (7429-90-5)		
Germany	TRGS 903 (BGW)	200 µg/l
Germany	Remark (TRGS 903)	Aluminium (Urin; Expositionsende bzw. Schichtende)
Hungary	Megjegyzések (HU)	(respirabilis por)
Ireland	OEL (8 hours ref) (mg/m³)	1 mg/m³
Ireland	Notes (IE)	(respirable dust)
Lithuania	IPRV (mg/m³)	2 mg/m³ (alveoline frakcija) 1 mg/m³ (Aluminis (metalas) ir jo tirpus junginiai, kaip Al) 5 mg/m³ (akvepiamoji frakcija)
Netherlands	Grenswaarde TGG 8H (mg/m³)	10 mg/m³
Poland	NDS (mg/m³)	2.5 mg/m³ (dymy, pyl całkowity) 1.2 mg/m³ (dymy, pyl respirabilny)
Slovakia	NPHV (priemerná) (mg/m³)	2 mg/m³
Slovakia	NPHV (priemerná) (ppm)	60 µg/g creatinine (Hlinik, M,a) 25 µg/g creatinine (Celkový, M.,d) 150 µg/g creatinine (Celkový,M,b)
Spain	VLA-ED (mg/m³)	10 mg/m³ (inhalable aerosol) 5 mg/m³ (respirable aerosol)
Sweden	nivågränsvärde (NVG) (mg/m³)	1 mg/m³ (Aluminium, lösliga föreningar, som Al) 5 mg/m³ (totaldamm, som Al) 2 mg/m³ (respirabelt damm, som Al)
United Kingdom	WEL TWA (mg/m³)	10 mg/m³ (inhalable dust) 4 mg/m³ (respirable dust)
Norway	Merknader (NO)	(Aluminiumpulver, pyroteknikk)
Switzerland	VME (mg/m³)	3 mg/m³
Switzerland	Remark (CH)	(alveolengängiger Staub)
Phosphoric acid (7664-38-2)		
Czech Republic	Remark (CZ)	I
Denmark	Grænseværdie (kortvarig) (mg/m³)	2 mg/m³
Germany	TRGS 900 Limitation of exposure peaks (mg/m³)	4 mg/m³
Netherlands	Grenswaarde TGG 8H (ppm)	0.2 ppm
Netherlands	Grenswaarde TGG 15MIN (ppm)	0.5 ppm
Slovakia	NPHV (priemerná) (mg/m³)	1 mg/m³
Spain	VLA-ED (mg/m³)	1 mg/m³
Spain	VLA-EC (mg/m³)	2 mg/m³
Spain	Notes	VLI, s

8.2. Exposure controls

Appropriate engineering controls	: Ensure good ventilation of the work station. Eyewash stations.
Personal protective equipment	: Avoid all unnecessary exposure.
Hand protection	: Use rubber gloves. EN374.
Eye protection	: Chemical goggles or safety glasses. EN166.
Respiratory protection	: None under normal use.
Other information	: Do not eat, drink or smoke when using this product.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: Paste.
Colour	: Silver. Gray.
Odour	: Oily.
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available

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Flash point	: 193 °C
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: 1.27
Solubility	: insoluble in water.
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

9.2. Other information

VOC content	: 0 %
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SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reactions known.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4. Conditions to avoid

Heat.

10.5. Incompatible materials

Oxidizer. Strong acids.

10.6. Hazardous decomposition products

Burning produces irritating, toxic and noxious fumes.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

NICKEL GRADE EZ BREAK®	
LD50 oral rat	> 5 ml/kg
nickel (7440-02-0)	
LD50 oral rat	> 9000 mg/kg OECD Guideline 401
LC50 inhalation rat (mg/l)	> 10.2 mg/l/4h No effects observed
aluminium powder (pyrophoric) (7429-90-5)	
LD50 oral rat	> 15900 mg/kg bodyweight
LC50 inhalation rat (Dust/Mist - mg/l/4h)	> 10 mg/l/4h
Phosphoric acid (7664-38-2)	
LD50 oral rat	3500 mg/kg
LD50 dermal rat	> 1260 mg/kg
ATE CLP (oral)	3500.000 mg/kg bodyweight
Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts (68649-42-3)	
LD50 oral rat	26100 mg/kg
ATE CLP (oral)	26100.000 mg/kg bodyweight

Skin corrosion/irritation	: Not classified (Slightly irritant but not relevant for classification)
Serious eye damage/irritation	: Not classified (Not irritating to rabbits on ocular application)
Respiratory or skin sensitisation	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Suspected of causing cancer.

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nickel (7440-02-0)	
NOAEL (chronic, oral, animal/male, 2 years)	0.4 mg/kg bodyweight OECD 451 (Carcinogenicity Studies). Adrenal gland pheochromocytomas (benign and malignant) were significantly increased in exposed male.
NOAEL (chronic, oral, animal/female, 2 years)	0.4 mg/kg bodyweight OECD 451 (Carcinogenicity Studies). The incidence of combined (adenoma and carcinoma) cortical tumors among 0.4 mg Ni/m ³ females, although statistically higher compared to the concurrent controls, falls within the historical control range; therefore, in the present study, this tumor is of uncertain relationship to nickel metal exposure.

Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: Causes damage to organs through prolonged or repeated exposure.

nickel (7440-02-0)	
LOAEL (inhalation, rat, dust/mist/fume, 90 days)	0.1 mg/l/6h/day OECD Guideline 451
NOAEL (oral, rat, 90 days)	< 4 mg/kg bodyweight/day OECD Guideline 412. increased incidence of granulomatous inflammation and mucoid exudate.
NOAEL (inhalation, rat, dust/mist/fume, 90 days)	> 10.2 mg/l/6h/day

Aspiration hazard	: Not classified
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SECTION 12: Ecological information

12.1. Toxicity

nickel (7440-02-0)	
LC50 fish 1	15.3 mg/l Oncorhynchus mykiss (as nickel chloride)
LOEC (chronic)	0.12 mg/l as Nickel(II) chloride hexahydrate
NOEC (chronic)	0.057 mg/l as Nickel(II) chloride hexahydrate

Phosphoric acid (7664-38-2)	
LC50 fish 1	138 mg/kg 96 h Gambusia affinis
EC50 Daphnia 1	> 100 mg/l

Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts (68649-42-3)	
LC50 fish 1	10 (10 - 35) mg/l Pimephales promelas OECD GDL 203 (water accommodated fraction)
EC50 Daphnia 1	1 (1 - 1.5) mg/l OECD GDL 202 (water accommodated fraction)
NOEC (acute)	10 mg/l Pimephales promelas OECD GDL 203 (water accommodated fraction)
NOEC chronic crustacea	< 1 mg/l

12.2. Persistence and degradability

nickel (7440-02-0)	
Persistence and degradability	Not established.

12.3. Bioaccumulative potential

nickel (7440-02-0)	
Bioconcentration factor (BCF REACH)	> 600
Bioaccumulative potential	Expected to bioaccumulate. Not established.

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

NICKEL GRADE EZ BREAK®	
PBT: not yet assessed	
vPvB: not yet assessed	
Component	
nickel (7440-02-0)	PBT: not relevant – no registration required vPvB: not relevant – no registration required

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Sewage disposal recommendations	: Do not dispose of waste into sewer.
Waste disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.
Ecology - waste materials	: Avoid release to the environment.

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European List of Waste (LoW) code	: For disposal within the EC, the appropriate code according to the European Waste Catalogue (EWC) should be used.
H code	: H13 - 'Sensitizing': substances and preparations which, if they are inhaled or if they penetrate the skin, are capable of eliciting a reaction of hypersensitization such that on further exposure to the substance or preparation, characteristic adverse effects are produced. H5 - 'Harmful': substances and preparations which, if they are inhaled or ingested or if they penetrate the skin, may involve limited health risks. H7 - 'Carcinogenic': substances and preparations which, if they are inhaled or ingested or if they penetrate the skin, may induce cancer or increase its incidence.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number

Not considered a dangerous good for transport regulations

14.2. UN proper shipping name

Proper Shipping Name (ADR) :

14.3. Transport hazard class(es)

Not applicable

14.4. Packing group

Not applicable

14.5. Environmental hazards

Other information : No supplementary information available.

14.6. Special precautions for user

14.6.1. Overland transport

No additional information available

14.6.2. Transport by sea

No additional information available

14.6.3. Inland waterway transport

Carriage prohibited (ADN) : No

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

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

VOC content : 0 %

15.1.2. National regulations

Germany

Water hazard class (WGK) : 1 - low hazard to waters

WGK remark : Classification based on the components in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS)

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

according to Regulation (EU) 2015/830

Indication of changes:

Original Document.

Abbreviations and acronyms:

	ATE: Acute Toxicity Estimate
	CAS (Chemical Abstracts Service) number
	CLP: Classification, Labelling, Packaging.
	EC50: Environmental Concentration associated with a response by 50% of the test population.

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	GHS: Globally Harmonized System (of Classification and Labeling of Chemicals).
	LD50: Lethal Dose for 50% of the test population
	OSHA: Occupational Safety & Health Administration
	PBT: Persistent, Bioaccumulative, Toxic
	TWA: Time Weight Average
	TSCA: Toxic Substances Control Act

Data sources : ESIS (European chemical Substances Information System; accessed at: <http://esis.jrc.ec.europa.eu/index.php?PGM=cla>.
European Chemicals Agency (ECHA) C&L Inventory database. Accessed at <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>.
Krister Forsberg and S.Z. Mansdorf, "Quick Selection Guide to Chemical Protective Clothing", Fifth Edition.
National Fire Protection Association. Fire Protection Guide to Hazardous Materials; 10th edition.
REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Other information : None.

Full text of R-, H- and EUH-statements:

Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Carc. 2	Carcinogenicity, Category 2
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Pyr. Sol. 1	Pyrophoric Solids, Category 1
Skin Corr. 1B	Skin corrosion/irritation, Category 1B
Skin Sens. 1	Sensitisation — Skin, category 1
STOT RE 1	Specific target organ toxicity — Repeated exposure, Category 1
Water-react. 2	Substances and Mixtures which, in contact with water, emit flammable gases, Category 2
H250	Catches fire spontaneously if exposed to air
H261	In contact with water releases flammable gases
H314	Causes severe skin burns and eye damage
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H351	Suspected of causing cancer
H372	Causes damage to organs through prolonged or repeated exposure
H400	Very toxic to aquatic life
H412	Harmful to aquatic life with long lasting effects
R15	Contact with water liberates extremely flammable gases
R17	Spontaneously flammable in air
R34	Causes burns
R40	Limited evidence of a carcinogenic effect
R43	May cause sensitisation by skin contact
R48/23	Toxic: danger of serious damage to health by prolonged exposure through inhalation
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
C	Corrosive
F	Highly flammable
N	Dangerous for the environment
T	Toxic

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Skin Sens. 1	H317	Calculation method
Carc. 2	H351	Calculation method
STOT RE 1	H372	Calculation method

LA-CO EU CLP SDS

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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