

Tile & Stone Grease & Oil Remover

Safety Data Sheet

According to Regulation (EC) No. 453/2010

Revision date: 21/01/2015

Date of issue: 14/01/2015

Version: 1.0

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

1.1. Product identifier

Product form : Mixture
Product Name : Tile & Stone Grease & Oil Remover
Product code : C082-PT

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 : Grease and oil remover for tile and stone.

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Supplier

Harris Research, Inc.
1530 North 1000 West
Logan, UT 84321 USA
(435)755-0099

www.chemdry.com

Chem-Dry France

Parc d'activites "Le Prieure"
RuePaulin Viry
37530 Poce-sur-Cisse
+33 761 8906 79

a.baba@chemdry-france.fr

Chem-Dry Luxembourg S.A

Rue De La Continentale
Zac Zaemer
Bascharage, L-4917

652 26 35 00 20

info@chemdry.lu

Portugal/Angola

Ambiclean-Limpeza De Alcatifas, LDA
Rua Samaora Machel N 3-D
Urbanizacoa Alto Da Eira
Sta Iria Da Azoia, 2695-395

351 21 953 00 33

info@chemdryportugal.com

UK/England/Scotland/Wales

Chem-Dry® Franchising Ltd.

Belprin Road

Beverly, East Yorkshire HU17 0LP

44 01482 678 645

e.info@chemdry.co.uk

1.4. Emergency telephone number

Emergency number : **Chemtrec (USA only):** (800) 424-9300
Chemtrec (outside USA): +1 703-527-3887

Europe: 112
Belgium: Poison Center (BE): +32 70 245 245
Denmark: Poison Control Hotline (DK): +45 82 12 12 12
France: ORFILA (FR): +01 45 42 59 59
Germany: Poison Center Berlin (DE): +49 030 30686 790
Poison Center Nord: +49 551 19240 (24h available English/German)
Ireland: National Poisons Information Centre (IE): +353 1 8379964
Luxembourg: 112
Netherlands: National Poisons Information Center (NL): +31 30 274 88 88

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	(NB: this service is only available to health professionals)
Norway:	Posions Information (NO): +47 22 591300
Portugal:	Poison Information Center (PT): +351 21 330 3284
Sweden:	Poisons Information Center (SV): +46 8 33 12 31
Switzerland:	Poison Center: Tel 145; +41 44 251 51 51
United Kingdom:	NHS Direct (UK): +44 (0) 845 46 47; 111

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Flam. Liq. 3	H226
Skin Irrit. 2	H315
Skin Sens. 1	H317
Muta. 1B	H340
Carc. 1A	H350
Repr. 2	H361
Asp. Tox. 1	H304
Aquatic Acute 1	H400
Aquatic Chronic 1	H410

Full text of H-phrases: see section 16

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

R10
Xi; R38
R43
Muta.Cat.2; R46
Carc.Cat.1; R45
Carc.Cat.1; R49
Repr.Cat.3; R62
Repr.Cat.3; R63
Xn; R65
N; R50/53

Full text of R-phrases: 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)



Signal word (CLP)

: Danger

Hazard statements (CLP)

: H226 - Flammable liquid and vapour.
H304 - May be fatal if swallowed and enters airways.
H315 - Causes skin irritation.
H317 - May cause an allergic skin reaction.
H340 - May cause genetic defects.
H350 - May cause cancer.
H361 - Suspected of damaging fertility or the unborn child.
H410 - Very toxic to aquatic life with long lasting effects.

Precautionary statements (CLP)

: P202 - Do not handle until all safety precautions have been read and understood.
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 - Keep container tightly closed.
P240 - Ground/bond container and receiving equipment.
P241 - Use explosion-proof electrical, ventilating, lighting equipment.
P261 - Avoid breathing mist, vapours, spray.
P264 - Wash hands, forearms, and exposed areas thoroughly after handling.

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P272 - Contaminated work clothing should not be allowed out of the workplace.
P273 - Avoid release to the environment.
P280 - Wear protective gloves, protective clothing, eye protection.
P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor.
P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P308+P313 - If exposed or concerned: Get medical advice/attention.
331 - Do NOT induce vomiting.
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P370+P378 - In case of fire: Use chemical powder, alcohol-resistant foam, carbon dioxide (CO₂) to extinguish.
P391 - Collect spillage.
P403+P235 - Store in a well-ventilated place. Keep cool.
P405 - Store locked up.
P501 - Dispose of contents/container in accordance with local, regional, national, and international regulations.

2.3. Other hazards

Other hazards not contributing to the classification : Exposure may aggravate those with pre-existing eye, skin, or respiratory conditions. Contains trace quantities of benzene (< 0.1%). Under elevated temperature conditions, may emit hazardous decomposition products.

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%	Classification according to Directive 67/548/EEC
Limestone	(CAS No) 1317-65-3 (EC no) 215-279-6	40 - 50	Not classified
D-Limonene	(CAS No) 5989-27-5 (EC no) 227-813-5 (EC index no) 601-029-00-7	40 - 50	R10 Xi; R38 R43 N; R50/53 Xn; R65
Naphtha, petroleum, hydrotreated heavy	(CAS No) 64742-48-9 (EC no) 265-150-3 (EC index no) 649-327-00-6	5 - 10	Carc.Cat.1; R45 Muta.Cat.1; R46 Xn; R65 N; R51/53 R67 Repr.Cat.3; R62 Repr.Cat.3; R63 Muta.Cat.2; R46 Xi; R38 F; R11
Isopropyl alcohol	(CAS No) 67-63-0 (EC no) 200-661-7 (EC index no) 603-117-00-0	< 2	F; R11 Xi; R36 R67
Quartz	(CAS No) 14808-60-7 (EC no) 238-878-4	< 0,3	Carc.Cat.1; R45 Xi; R37 T; R48/23

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Limestone	(CAS No) 1317-65-3 (EC no) 215-279-6	40 - 50	Not classified
D-Limonene	(CAS No) 5989-27-5 (EC no) 227-813-5 (EC index no) 601-029-00-7	40 - 50	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Naphtha, petroleum, hydrotreated heavy	(CAS No) 64742-48-9 (EC no) 265-150-3 (EC index no) 649-327-00-6	5 - 10	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Muta. 1B, H340 Carc. 1B, H350 Repr. 2, H361 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
Isopropyl alcohol	(CAS No) 67-63-0 (EC no) 200-661-7 (EC index no) 603-117-00-0	< 2	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
Quartz	(CAS No) 14808-60-7 (EC no) 238-878-4	< 0,3	Carc. 1A, H350 STOT SE 3, H335 STOT RE 1, H372

Full text of R- and H-phrases: 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 if possible).
- First-aid measures after inhalation : Remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell. Ventilate the area.
- First-aid measures after skin contact : Remove contaminated clothing. Drench affected area with water for at least 15 minutes. Obtain medical attention if irritation develops or persists. Wash contaminated clothing before reuse.
- First-aid measures after eye contact : Rinse cautiously with water for at least 60 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention.
- First-aid measures after ingestion : Immediately call a POISON CENTER or doctor/physician. Rinse mouth. DO NOT induce vomiting. If vomiting occurs, keep head below waistline.

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

- Symptoms/injuries : Causes eye irritation. Causes skin irritation. May cause an allergic skin reaction. May be fatal if swallowed and enters airways. May cause drowsiness or dizziness. May cause genetic defects. May cause cancer.
- Symptoms/injuries after inhalation : May cause respiratory irritation. May cause drowsiness or dizziness. Symptoms may include headache, dizziness, fatigue, muscular weakness, drowsiness, and in extreme cases, loss of consciousness. Aspiration of this material may cause chemical pneumonia.
- Symptoms/injuries after skin contact : Causes skin irritation. May cause an allergic skin reaction. Symptoms may include redness, pain, swelling, itching, burning, dryness, and dermatitis.
- Symptoms/injuries after eye contact : Causes eye irritation. Symptoms may include redness, pain, swelling, itching, burning, tearing, and blurred vision.
- Symptoms/injuries after ingestion : Ingestion is likely to be harmful or have adverse effects. May be fatal if swallowed and enters airways. The major health threat of ingestion occurs from the danger of aspiration (breathing) of liquid drops into the lungs, particularly from vomiting. Aspiration may result in chemical pneumonia (fluid in the lungs), severe lung damage, respiratory failure and even death.

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Chronic symptoms : May cause cancer. Suspected of damaging fertility or the unborn child. Suspected of causing genetic defects. Chronic exposure may cause liver, lung, spleen, and kidney damages.

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

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Dry chemical powder, alcohol-resistant foam, carbon dioxide (CO₂).

Unsuitable extinguishing media : Do not use a heavy water stream. Use of heavy stream of water may spread fire.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Flammable liquid and vapor.

Explosion hazard : May form flammable/explosive vapour-air mixture. Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries.

Reactivity : Reacts violently with strong oxidisers. Increased risk of fire or explosion.

Hazardous decomposition products in case of fire : Carbon oxides (CO, CO₂). Nitrogen Oxides. Hydrochloric Acid. Hydrocarbons. Acrid smoke and irritating fumes.

5.3. Advice for firefighters

Precautionary measures fire : Exercise caution when fighting any chemical fire. Vapours are heavier than air and may travel considerable distance to an ignition source and flash back to source of vapours. Under fire conditions, hazardous fumes will be present. Under fire conditions closed containers may rupture or explode.

Firefighting instructions : Use water spray or fog for cooling exposed containers. Closed containers exposed to heat may explode. In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion. Do not allow run-off from firefighting to enter drains or water sources.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Handle in accordance with good industrial hygiene and safety practice. Do not breathe vapour, mist, dust, or spray. Avoid all contact with skin, eyes, or clothing. Use special care to avoid static electric charges. Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking.

6.1.1. For non-emergency personnel

Protective equipment : Use appropriate personal protection equipment (PPE).

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Eliminate ignition sources. Stop leak if safe to do so. Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

For containment : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

Methods for cleaning up : Clear up spills immediately and dispose of waste safely. Absorb and/or contain spill with inert material, then place in suitable container. Do not take up in combustible material such as: saw dust or cellulosic material. Use only non-sparking tools. Contact competent authorities after a spill.

6.4. Reference to other sections

See heading 8, Exposure Controls and Personal Protection. For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed : Handle empty containers with care because residual vapours are flammable. Any proposed use of this product in elevated-temperature processes should be thoroughly evaluated to assure that safe operating conditions are established and maintained.

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- Precautions for safe handling : Use only non-sparking tools. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid contact with skin, eyes and clothing. Avoid breathing vapour, mist, or spray. Use appropriate personal protection equipment (PPE).
- Hygiene measures : Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

- Technical measures : Comply with applicable regulations. Proper grounding procedures to avoid static electricity should be followed. Use explosion-proof electrical, ventilating, and lighting equipment. Ensure adequate ventilation.
- Storage conditions : Store in a cool, dry, well-ventilated place. Keep containers tightly closed. Do not store near heat, flame, or other potential ignition sources. Do not store with oxidizers. Do not store in unlabeled containers. Ground all equipment containing this material. All electrical equipment in areas where this material is stored or handled must meet all applicable requirements of the NFPA's National Electrical Code (NEC). Store and transport in accordance with all applicable laws. Keep container closed when not in use. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials. Keep away from ignition sources (including static discharges).
- Incompatible products : Strong acids. Strong bases. Strong oxidizers.

7.3. Specific end use(s)

Grease and oil remover for tile and stone.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Limestone (1317-65-3)		
Belgium	Limit value (mg/m ³)	10 mg/m ³
Bulgaria	OEL TWA (mg/m ³)	1,0 fibers/cm ³ (containing <2% free Crystalline silicon dioxide in respirable fibrous particles fraction-respirable fraction, fibers) 10 mg/m ³ (containing <2% free Crystalline silicon dioxide in respirable fibrous particles fraction-inhalable fraction)
Croatia	GVI (granična vrijednost izloženosti) (mg/m ³)	4 mg/m ³ (respirable dust) 10 mg/m ³ (total dust)
Greece	OEL TWA (mg/m ³)	10 mg/m ³ (inhalable fraction) 5 mg/m ³ (respirable fraction)
United Kingdom	WEL TWA (mg/m ³)	10 mg/m ³ (inhalable dust) 4 mg/m ³ (respirable dust)
United Kingdom	WEL STEL (mg/m ³)	30 mg/m ³ (calculated-inhalable dust) 12 mg/m ³ (calculated-respirable dust)
Czech Republic	Expoziční limity (PEL) (mg/m ³)	10,0 mg/m ³ (dust)
Estonia	OEL TWA (mg/m ³)	10 mg/m ³ 5 mg/m ³ (respirable dust)
Hungary	AK-érték	10 mg/m ³
Ireland	OEL (8 hours ref) (mg/m ³)	10 mg/m ³ (total inhalable dust) 4 mg/m ³ (respirable dust)
Ireland	OEL (15 min ref) (mg/m ³)	30 mg/m ³ (calculated-total inhalable dust) 12 mg/m ³ (calculated-respirable dust)
Romania	OEL TWA (mg/m ³)	10 mg/m ³ (inhalable fraction, dust)
Slovakia	NPHV (priemerná) (mg/m ³)	10 mg/m ³ (total aerosol)

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D-Limonene (5989-27-5)		
Germany	TRGS 900 Occupational exposure limit value (mg/m ³)	28 mg/m ³ (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Germany	TRGS 900 Occupational exposure limit value (ppm)	5 ppm (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Switzerland	VLE (mg/m ³)	80 mg/m ³
Switzerland	VLE (ppm)	14 ppm
Switzerland	VME (mg/m ³)	40 mg/m ³
Switzerland	VME (ppm)	7 ppm
Finland	HTP-arvo (8h) (mg/m ³)	140 mg/m ³
Finland	HTP-arvo (8h) (ppm)	25 ppm
Finland	HTP-arvo (15 min)	280 mg/m ³
Finland	HTP-arvo (15 min) (ppm)	50 ppm
Norway	Gjennomsnittsverdier (AN) (mg/m ³)	140 mg/m ³
Norway	Gjennomsnittsverdier (AN) (ppm)	25 ppm
Norway	Gjennomsnittsverdier (Korttidsverdi) (mg/m ³)	175 mg/m ³
Norway	Gjennomsnittsverdier (Korttidsverdi) (ppm)	37,5 ppm
Naphtha, petroleum, hydrotreated heavy (64742-48-9)		
Switzerland	VLE (mg/m ³)	600 mg/m ³
Switzerland	VLE (ppm)	100 ppm
Switzerland	VME (mg/m ³)	300 mg/m ³
Switzerland	VME (ppm)	50 ppm
Poland	NDS (mg/m ³)	300 mg/m ³ (varnish)
Poland	NDSch (mg/m ³)	900 mg/m ³ (varnish)
Isopropyl alcohol (67-63-0)		
Austria	MAK (mg/m ³)	500 mg/m ³ (short time value for large casting)
Austria	MAK (ppm)	200 ppm (short time value for large casting)
Austria	MAK Short time value (mg/m ³)	2000 mg/m ³ 2000 mg/m ³ (STEL for large casting valid till 12/31/2013)
Austria	MAK Short time value (ppm)	800 ppm 800 ppm (STEL for large casting valid till 12/31/2013)
Belgium	Limit value (mg/m ³)	500 mg/m ³
Belgium	Limit value (ppm)	200 ppm
Belgium	Short time value (mg/m ³)	1000 mg/m ³
Belgium	Short time value (ppm)	400 ppm
Bulgaria	OEL TWA (mg/m ³)	980,0 mg/m ³
Bulgaria	OEL STEL (mg/m ³)	1225,0 mg/m ³
Croatia	GVI (granična vrijednost izloženosti) (mg/m ³)	999 mg/m ³
Croatia	GVI (granična vrijednost izloženosti) (ppm)	400 ppm
Croatia	KGVI (kratkotrajna granična vrijednost izloženosti) (mg/m ³)	1250 mg/m ³

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Isopropyl alcohol (67-63-0)		
Croatia	KGVI (kratkotrajna granična vrijednost izloženosti) (ppm)	500 ppm
France	VLE (mg/m ³)	980 mg/m ³
France	VLE (ppm)	400 ppm
Germany	TRGS 900 Occupational exposure limit value (mg/m ³)	500 mg/m ³ (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Germany	TRGS 900 Occupational exposure limit value (ppm)	200 ppm (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Germany	TRGS 903 (BGW)	25 mg/l (Medium: whole blood - Time: end of shift - Parameter: Acetone) 25 mg/l (Medium: urine - Time: end of shift - Parameter: Acetone)
Greece	OEL TWA (mg/m ³)	980 mg/m ³
Greece	OEL TWA (ppm)	400 ppm
Greece	OEL STEL (mg/m ³)	1225 mg/m ³
Greece	OEL STEL (ppm)	500 ppm
USA ACGIH	ACGIH TWA (ppm)	200 ppm
USA ACGIH	ACGIH STEL (ppm)	400 ppm
Latvia	OEL TWA (mg/m ³)	350 mg/m ³
Spain	VLA-ED (mg/m ³)	500 mg/m ³ (it is prohibited the partial or complete commercialization or use of this substance as a phytosanitary or biocide compound)
Spain	VLA-ED (ppm)	200 ppm (it is prohibited the partial or complete commercialization or use of this substance as a phytosanitary or biocide compound)
Spain	VLA-EC (mg/m ³)	1000 mg/m ³
Spain	VLA-EC (ppm)	400 ppm
Switzerland	VLE (mg/m ³)	1000 mg/m ³
Switzerland	VLE (ppm)	400 ppm
Switzerland	VME (mg/m ³)	500 mg/m ³
Switzerland	VME (ppm)	200 ppm
United Kingdom	WEL TWA (mg/m ³)	999 mg/m ³
United Kingdom	WEL TWA (ppm)	400 ppm
United Kingdom	WEL STEL (mg/m ³)	1250 mg/m ³
United Kingdom	WEL STEL (ppm)	500 ppm
Czech Republic	Expoziční limity (PEL) (mg/m ³)	500 mg/m ³
Denmark	Grænseværdie (langvarig) (mg/m ³)	490 mg/m ³
Denmark	Grænseværdie (langvarig) (ppm)	200 ppm
Estonia	OEL TWA (mg/m ³)	350 mg/m ³
Estonia	OEL TWA (ppm)	150 ppm
Estonia	OEL STEL (mg/m ³)	600 mg/m ³
Estonia	OEL STEL (ppm)	250 ppm
Finland	HTP-arvo (8h) (mg/m ³)	500 mg/m ³
Finland	HTP-arvo (8h) (ppm)	200 ppm
Finland	HTP-arvo (15 min)	620 mg/m ³
Finland	HTP-arvo (15 min) (ppm)	250 ppm

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Isopropyl alcohol (67-63-0)		
Hungary	AK-érték	500 mg/m ³
Hungary	CK-érték	2000 mg/m ³
Ireland	OEL (8 hours ref) (ppm)	200 ppm
Ireland	OEL (15 min ref) (ppm)	400 ppm
Lithuania	IPRV (mg/m ³)	350 mg/m ³
Lithuania	IPRV (ppm)	150 ppm
Lithuania	TPRV (mg/m ³)	600 mg/m ³
Lithuania	TPRV (ppm)	250 ppm
Norway	Gjennomsnittsverdier (AN) (mg/m ³)	245 mg/m ³
Norway	Gjennomsnittsverdier (AN) (ppm)	100 ppm
Norway	Gjennomsnittsverdier (Korttidsverdi) (mg/m ³)	306,25 mg/m ³
Norway	Gjennomsnittsverdier (Korttidsverdi) (ppm)	150 ppm
Poland	NDS (mg/m ³)	900 mg/m ³
Poland	NDSch (mg/m ³)	1200 mg/m ³
Romania	OEL TWA (mg/m ³)	200 mg/m ³
Romania	OEL TWA (ppm)	81 ppm
Romania	OEL STEL (mg/m ³)	500 mg/m ³
Romania	OEL STEL (ppm)	203 ppm
Slovakia	NPHV (priemerná) (mg/m ³)	500 mg/m ³
Slovakia	NPHV (priemerná) (ppm)	200 ppm
Slovakia	NPHV (Hraničná) (mg/m ³)	1000 mg/m ³
Slovenia	OEL TWA (mg/m ³)	500 mg/m ³
Slovenia	OEL TWA (ppm)	200 ppm
Slovenia	OEL STEL (mg/m ³)	2000 mg/m ³
Slovenia	OEL STEL (ppm)	800 ppm
Sweden	nivågränsvärde (NVG) (mg/m ³)	350 mg/m ³
Sweden	nivågränsvärde (NVG) (ppm)	150 ppm
Sweden	kortidsvärde (KTV) (mg/m ³)	600 mg/m ³
Sweden	kortidsvärde (KTV) (ppm)	250 ppm
Portugal	OEL TWA (ppm)	200 ppm
Portugal	OEL STEL (ppm)	400 ppm
Portugal	OEL chemical category (PT)	A4 - Not Classifiable as a Human Carcinogen
Quartz (14808-60-7)		
Austria	MAK (mg/m ³)	0,15 mg/m ³ (yearly average, valid till 12/31/2013-alveolar dust, respirable fraction)
Belgium	Limit value (mg/m ³)	0,1 mg/m ³ (alveolar dust)
Bulgaria	OEL TWA (mg/m ³)	0,07 mg/m ³ (respirable fraction)
Croatia	GVI (granična vrijednost izloženosti) (mg/m ³)	0,1 mg/m ³ 0,1 mg/m ³ (regulated under Quartz sand-respirable dust)
France	VME (mg/m ³)	0,1 mg/m ³ (restrictive limit-alveolar fraction)
USA ACGIH	ACGIH TWA (mg/m ³)	0,025 mg/m ³ (respirable fraction)
Spain	VLA-ED (mg/m ³)	0,1 mg/m ³ (reclassified IARC group 2A to group 1-respirable fraction)
Switzerland	VME (mg/m ³)	0,15 mg/m ³ (respirable)
Netherlands	Grenswaarde TGG 8H (mg/m ³)	0,075 mg/m ³ (respirable dust)

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Quartz (14808-60-7)		
United Kingdom	WEL TWA (mg/m ³)	0,1 mg/m ³ (respirable)
United Kingdom	WEL STEL (mg/m ³)	0,3 mg/m ³ (calculated-respirable)
Czech Republic	Expoziční limity (PEL) (mg/m ³)	0,1 mg/m ³ (dust)
Denmark	Grænseværdie (langvarig) (mg/m ³)	0,3 mg/m ³ (total) 0,1 mg/m ³ (respirable)
Estonia	OEL TWA (mg/m ³)	0,1 mg/m ³ (respirable dust)
Finland	HTP-arvo (8h) (mg/m ³)	0,05 mg/m ³ (respirable)
Hungary	AK-érték	0,15 mg/m ³ (respirable)
Ireland	OEL (8 hours ref) (mg/m ³)	0,1 mg/m ³ (respirable dust)
Ireland	OEL (15 min ref) (mg/m ³)	0,3 mg/m ³ (calculated-respirable dust)
Lithuania	IPRV (mg/m ³)	0,1 mg/m ³ (Silicon dioxide variation-respirable fraction)
Norway	Gjennomsnittsverdier (AN) (mg/m ³)	0,3 mg/m ³ (Dust containing .alpha.-Quartz, Cristobalite and/or Tridymite is evaluated by summation formula-total dust) 0,1 mg/m ³ (Dust containing .alpha.-Quartz, Cristobalite and/or Tridymite is evaluated by summation formula-respirable dust)
Norway	Gjennomsnittsverdier (Korttidsverdi) (mg/m ³)	0,9 mg/m ³ (Dust containing .alpha.-Quartz, Cristobalite and/or Tridymite is evaluated by summation formula-total dust) 0,3 mg/m ³ (Dust containing .alpha.-Quartz, Cristobalite and/or Tridymite is evaluated by summation formula-respirable dust)
Poland	NDS (mg/m ³)	2 mg/m ³ (>50% free crystalline silica-total inhalable dust) 0,3 mg/m ³ (>50% free crystalline silica-respirable dust) 4,0 mg/m ³ (2% to 50% free crystalline silica-total inhalable dust) 1,0 mg/m ³ (2% to 50% free crystalline silica-respirable dust)
Romania	OEL TWA (mg/m ³)	0,1 mg/m ³ (respirable fraction, dust)
Slovakia	NPHV (priemerná) (mg/m ³)	0,1 mg/m ³ (in Cristobalite or Tridymite-total aerosol)
Slovenia	OEL TWA (mg/m ³)	0,15 mg/m ³ (respirable fraction)
Sweden	nivågränsvärde (NVG) (mg/m ³)	0,1 mg/m ³ (respirable dust)
Portugal	OEL TWA (mg/m ³)	0,025 mg/m ³ (respirable fraction)
Portugal	OEL chemical category (PT)	A2 - Suspected Human Carcinogen

8.2. Exposure controls

Appropriate engineering controls

: Ensure all national/local regulations are observed. Proper grounding procedures to avoid static electricity should be followed. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Provide sufficient ventilation to keep vapours below permissible exposure limit. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapour or mists below the applicable workplace exposure limits indicated above. All electrical equipment should comply with the National Electric Code. Gas detectors should be used when flammable gases or vapours may be released.

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Personal protective equipment	: Protective goggles. Gloves. Protective clothing. Insufficient ventilation: wear respiratory protection.
Materials for protective clothing	: Wear fire/flammable resistant/retardant clothing.
Hand protection	: Wear chemically resistant protective gloves.
Eye protection	: Chemical safety goggles.
Skin and body protection	: Wear fireproof clothing.
Respiratory protection	: If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn.
Environmental exposure controls	: Do not allow the product to be released into the environment.
Consumer exposure controls	: Do not eat, drink, or smoke during use.



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Grey paste
Odour	: Lemon-like
Odour threshold	: No data available
pH	: No data available
Evaporation rate	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: 48,9 °C (120,02 °F) PMCC
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
Solubility	: No data available
Partition coefficient: n-octanol/water	: No data available
Viscosity	: No data available
Explosive properties	: Risk of explosion if heated under confinement. Vapours may form explosive mixtures with air.
Oxidising properties	: No data available
Explosive limits	: No data available

9.2. Other information

VOC content	: 51%
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SECTION 10: Stability and reactivity

10.1. Reactivity

Reacts violently with strong oxidisers. Increased risk of fire or explosion.

10.2. Chemical stability

Stable under recommended handling and storage conditions (see section 7).

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4. Conditions to avoid

Overheating. Ignition sources. Direct sunlight. Extremely high or low temperatures. Incompatible materials.

10.5. Incompatible materials

Strong acids. Strong bases. Strong oxidizers.

10.6. Hazardous decomposition products

Thermal decomposition generates: Carbon oxides (CO, CO₂). Nitrogen Oxides. Hydrochloric Acid. Hydrocarbons. Acrid smoke and irritating fumes.

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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

D-Limonene (5989-27-5)	
LD50 oral rat	4400 mg/kg
LD50 dermal rabbit	> 5 g/kg
Naphtha, petroleum, hydrotreated heavy (64742-48-9)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 3160 mg/kg
Isopropyl alcohol (67-63-0)	
LD50 oral rat	4710 mg/kg
LD50 dermal rabbit	4059 mg/kg
LC50 inhalation rat (mg/l)	72600 mg/m ³ (Exposure time: 4 h)
Quartz (14808-60-7)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rat	> 5000 mg/kg

Skin corrosion/irritation : Causes skin irritation
Serious eye damage/irritation : Not classified
Respiratory or skin sensitisation : May cause an allergic skin reaction
Germ cell mutagenicity : May cause genetic defects
Carcinogenicity : May cause cancer

D-Limonene (5989-27-5)	
IARC group	3
National Toxicology Program (NTP) Status	Evidence of Carcinogenicity.
Isopropyl alcohol (67-63-0)	
IARC group	3
Quartz (14808-60-7)	
IARC group	1
National Toxicology Program (NTP) Status	Known Human Carcinogens.

Reproductive toxicity : Suspected of damaging fertility or the unborn child
Specific target organ toxicity (single exposure) : May cause drowsiness or dizziness
Specific target organ toxicity (repeated exposure) : Not classified
Aspiration hazard : May be fatal if swallowed and enters airways

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Very toxic to aquatic life with long lasting effects. This material is hazardous to the aquatic environment. Keep out of sewers and waterways.

D-Limonene (5989-27-5)	
LC50 fishes 1	0,619 - 0,796 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
LC50 fish 2	35 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)
Naphtha, petroleum, hydrotreated heavy (64742-48-9)	
LC50 fishes 1	2200 mg/l (Exposure time: 96 h - Species: Pimephales promelas)
Isopropyl alcohol (67-63-0)	
LC50 fishes 1	9640 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
EC50 Daphnia 1	13299 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 other aquatic organisms 1	1000 mg/l (Exposure time: 96 h - Species: Desmodesmus subspicatus)
LC50 fish 2	11130 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])

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Isopropyl alcohol (67-63-0)	
EC50 other aquatic organisms 2	1000 mg/l (Exposure time: 72 h - Species: Desmodemus subspicatus)
12.2. Persistence and degradability	
Tile & Stone Grease & Oil Remover	
Persistence and degradability	Not established.
12.3. Bioaccumulative potential	
Tile & Stone Grease & Oil Remover	
Bioaccumulative potential	Not established.
Isopropyl alcohol (67-63-0)	
Log Pow	0,05 (at 25 °C)

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

Other information : Avoid release to the environment.

SECTION 13: Disposal considerations






13.1. Waste treatment methods

Waste disposal recommendations : Dispose of waste material in accordance with all local, regional, national, and international regulations.

Additional information : Handle empty containers with care because residual vapours are flammable.

SECTION 14: Transport information

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

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
3295	3295	3295	3295	3295
14.2. UN proper shipping name				
HYDROCARBONS, LIQUID, N.O.S.	HYDROCARBONS, LIQUID, N.O.S.	Hydrocarbons, liquid, n.o.s.	HYDROCARBONS, LIQUID, N.O.S.	HYDROCARBONS, LIQUID, N.O.S.
14.3. Transport hazard class(es)				
3	3	3	3	3
				
14.4. Packing group				
III	III	III	III	III
14.5. Environmental hazards				
Dangerous for the environment : Yes	Dangerous for the environment : Yes Marine pollutant : Yes	Dangerous for the environment : Yes	Dangerous for the environment : Yes	Dangerous for the environment : Yes

14.6. Special precautions for user

No additional information available

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

Not applicable

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According to Regulation (EC) No. 453/2010

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:

3. Liquid substances or mixtures which are regarded as dangerous in accordance with Directive 1999/45/EC or are fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008	Tile & Stone Grease & Oil Remover
28. Substances which appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 classified as Carcinogen category 1A or 1B (Table 3.1) or Carcinogen category 1 or 2 (Table 3.2) and listed as follows: Carcinogen category 1A (Table 3.1)/Carcinogen category 1 (Table 3.2) listed in Appendix 1 Carcinogen category 1B (Table 3.1)/Carcinogen category 2 (Table 3.2) listed in Appendix 2	Naphtha, petroleum, hydrotreated heavy
29. Substances which appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 classified as Germ cell Mutagen category 1A or 1B (Table 3.1) or Mutagen category 1 or 2 (Table 3.2) and listed as follows: Mutagen category 1A (Table 3.1)/Mutagen category 1 (Table 3.2) listed in Appendix 3 Mutagen category 1B (Table 3.1)/Mutagen category 2 (Table 3.2) listed in Appendix 4	Naphtha, petroleum, hydrotreated heavy
40. Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or not.	Tile & Stone Grease & Oil Remover

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

VOC content : 51%

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Revision date : 21/01/2015

Data sources : 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

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

Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Asp. Tox. 1	Aspiration hazard, Category 1
Carc. 1A	Carcinogenicity, Category 1A
Carc. 1B	Carcinogenicity, Category 1B
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 2	Flammable liquids, Category 2
Flam. Liq. 3	Flammable liquids, Category 3

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Muta. 1B	Germ cell mutagenicity, Category 1B
Repr. 2	Reproductive toxicity, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Sensitisation — Skin, category 1
Skin Sens. 1B	Sensitisation — Skin, category 1B
STOT RE 1	Specific target organ toxicity — Repeated exposure, Category 1
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H225	Highly flammable liquid and vapour
H226	Flammable liquid and vapour
H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness
H340	May cause genetic defects
H350	May cause cancer
H361	Suspected of damaging fertility or the unborn child
H372	Causes damage to organs through prolonged or repeated exposure
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H411	Toxic to aquatic life with long lasting effects
R10	Flammable
R11	Highly flammable
R36	Irritating to eyes
R37	Irritating to respiratory system
R38	Irritating to skin
R43	May cause sensitisation by skin contact
R45	May cause cancer
R46	May cause heritable genetic damage
R48/23	Toxic: danger of serious damage to health by prolonged exposure through inhalation
R49	May cause cancer by inhalation
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R62	Possible risk of impaired fertility
R63	Possible risk of harm to the unborn child
R65	Harmful: may cause lung damage if swallowed
R67	Vapours may cause drowsiness and dizziness
F	Highly flammable
N	Dangerous for the environment
T	Toxic
Xi	Irritant
Xn	Harmful

Harris Research Inc EU GHS SDS

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.