

Clean-Dry**Safety Data Sheet**

according to Regulation (EC) No. 453/2010

Date of issue: 08/12/2014

Version: 1.0

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

Product form : Mixture
 Trade name : Clean-Dry
 Product code : CU053-G, CU053-CS

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 : Carpet and upholstery cleaning pre-spray to improve emulsification of dirt. Applied prior to cleaning.

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Harris Research, Inc. 1530 North 1000 West Logan, UT 84321 USA 1-435-755-0099 1-800-424-9300 1-703-527-3887	Denmark, Norway, Sweden Chem-Dry Nordic Aps Munkegaardsvej 21 Kivstgaard, 3490 45-48-14-44-18 th@chemdry.dk	Chem-Dry France Parc d'activites "Le Prieure" RuePaulin Viry 37530 Poce-sur-Cisse +33 761 8906 79 a.baba@chemdry-france.fr
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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	Switzerland/Lichtenstein Chem-Dry Switzerland Kellerhofstrasse 11 Elgg, 8353 (41)523643031 liz.prohaska@procamed.ch	UK/England/Scotland/Wales Chem-Dry® Franchising Ltd. Belprin Road Beverley, East Yorkshire HU17 0LP 44 01482 678 645 e.info@chemdry.co.uk

1.4. Emergency telephone number

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

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
 Eye Dam. 1 H318
 Skin Sens. 1 H317
 Asp. Tox. 1 H304
 Aquatic Chronic 2 H411

Full text of H-phrases: see section 16

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

Xi; R38
 N; R51/53

Clean-Dry

Safety Data Sheet

according to Regulation (EC) No. 453/2010

R10

Xn; R65

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
H318 - Causes serious eye damage
H411 - Toxic to aquatic life with long lasting effects

Precautionary statements (CLP) :

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 ventilating, lighting, electrical equipment
P261 - Avoid breathing mist, spray, vapours, fume, gas
P264 - Wash hands thoroughly after handling

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%	Classification according to Directive 67/548/EEC
Terpenes and Terpenoids, sweet orange-oil	(CAS No) 68647-72-3 (EC no) 614-678-6	90 - 95	R10 Xn; R65 Xi; R38 N; R51/53
Alcohols, C12-14-secondary, ethoxylated	(CAS No) 84133-50-6 (EC no) 617-534-0	4 - 10	Xi; R38 Xi; R41
Polyethylene glycol substance with national workplace exposure limit(s) (AT, DE, SK)	(CAS No) 25322-68-3 (EC no) 500-038-2	< 0.15	Not classified

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Terpenes and Terpenoids, sweet orange-oil	(CAS No) 68647-72-3 (EC no) 614-678-6	90 - 95	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
Alcohols, C12-14-secondary, ethoxylated	(CAS No) 84133-50-6 (EC no) 617-534-0	4 - 10	Skin Irrit. 2, H315 Eye Dam. 1, H318
Polyethylene glycol substance with national workplace exposure limit(s) (AT, DE, SK)	(CAS No) 25322-68-3 (EC no) 500-038-2	< 0.15	STOT SE 3, H335

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 where possible).

Clean-Dry

Safety Data Sheet

according to Regulation (EC) No. 453/2010

First-aid measures after inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, give artificial respiration. by trained personnel. In all cases of doubt, or when symptoms persist, seek medical advice.
First-aid measures after skin contact	: Rinse and then wash skin thoroughly with water and soap. Remove/Take off immediately all contaminated clothing. Seek medical attention if irritation develops.
First-aid measures after eye contact	: Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if pain, blinking or redness persist.
First-aid measures after ingestion	: Ingestion is not considered a potential route of exposure. If swallowed, rinse mouth with water (only if the person is conscious). Do NOT induce vomiting. May result in aspiration into the lungs, causing chemical pneumonia. Immediately call a POISON CENTER or doctor/ physician. Get medical advice/ attention. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration.

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

Symptoms/injuries after inhalation	: In case of repeated or prolonged exposure : Inhalation of mist or aerosol may cause irritation to nose and throat . Symptoms of overexposure may be narcotic effects. Depression of the central nervous system, headaches, dizziness, drowsiness, loss of coordination.
Symptoms/injuries after skin contact	: Prolonged or repeated contact with the skin may cause dermatitis. Drying up of the skin. Causes skin irritation. May cause an allergic skin reaction.
Symptoms/injuries after eye contact	: Producing fumes/mist. Causes serious eye damage.
Symptoms/injuries after ingestion	: May be fatal if swallowed and enters airways.

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

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Use dry chemical, foam, carbon dioxide or water fog.
Unsuitable extinguishing media	: Use of heavy stream of water may spread fire.

5.2. Special hazards arising from the substance or mixture

Fire hazard	: Flammable liquid and vapour.
Explosion hazard	: May form flammable/explosive vapour-air mixture. Heavier than air, vapours may travel long distances along ground, ignite and flash back to source. In closed containers, pressure build up could result in distortion, blowing and in extreme cases bursting of the container.

5.3. Advice for firefighters

Firefighting instructions	: Approach from upwind. Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment. Evacuate the personnel away from the fumes.
Protective equipment for firefighters	: Do not enter fire area without proper protective equipment, including respiratory protection. Wear a self contained breathing apparatus.
Other information	: Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries. Cool closed containers exposed to fire with water spray.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	: Avoid breathing mist or vapor . Avoid contact with skin, eyes and clothes. Stop leak if safe to do so. Spills of this product present a serious slipping hazard. Eliminate all ignition sources if safe to do so.
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6.1.1. For non-emergency personnel

Protective equipment	: Refer to section 8. Avoid contact with the skin and the eyes.
Emergency procedures	: Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment	: Equip cleanup crew with proper protection.
Emergency procedures	: Provide adequate ventilation. Evacuate unnecessary personnel.

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

Methods for cleaning up	: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials. Take precautionary measures against static discharge. Ensure all national/local regulations are observed.
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6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

Clean-Dry

Safety Data Sheet

according to Regulation (EC) No. 453/2010

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Obtain special instructions before use. Work in a well-ventilated area. Protect eyes from misting or spraying material. Avoid inhaling product mist. Do not spray into eyes. Keep away from heat and direct sunlight. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Use only antistatically equipped (spark-free) tools. Take precautionary measures against static discharge.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practices. Do not eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : A washing facility/water for eye and skin cleaning purposes should be present. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of mists and/or vapors below the recommended exposure limits. Use explosion-proof machinery, apparatus, ventilation facilities, tools etc.

Storage conditions : Keep locked up and out of reach of children. Store away from freezing (avoid freezing during storage). Keep only in the original container in a cool well ventilated place. Protect against direct sunlight. Store in dry, cool, well-ventilated area. Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Incompatible materials : Strong oxidizing agents. Acids. Bases.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Polyethylene glycol (25322-68-3)		
Austria	MAK (mg/m ³)	1000 mg/m ³ (average molecular weight 200-400-inhalable fraction)
Austria	MAK Short time value (mg/m ³)	4000 mg/m ³ (average molecular weight 200-400-inhalable fraction)
Germany	TRGS 900 Occupational exposure limit value (mg/m ³)	1000 mg/m ³ (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed, average molecular weight 200-400-inhalable fraction)
Slovakia	NPHV (priemerná) (mg/m ³)	1000 mg/m ³
Slovakia	NPHV (Hraničná) (mg/m ³)	8000 mg/m ³
Slovenia	OEL TWA (mg/m ³)	1000 mg/m ³ (inhalable fraction, MW 200-400)
Slovenia	OEL STEL (mg/m ³)	4000 mg/m ³ (MW 200-400-inhalable fraction)

8.2. Exposure controls

Appropriate engineering controls : Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Provide local exhaust or general room ventilation. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of mists and/or vapors below the recommended exposure limits.

Personal protective equipment : Avoid all unnecessary exposure. The following pictograms represent the minimum requirements for personal protective equipment. Personal protective equipment should be selected based upon the conditions under which this product is handled or used. Protective goggles. Protective clothing. Gloves.



Hand protection : Wear protective gloves. rubber gloves. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Be aware that the liquid may penetrate the gloves. Frequent change is advisable.

Eye protection : Chemical goggles or safety glasses.

Skin and body protection : Wear suitable protective clothing. Wear protective shoes.

Respiratory protection : In fine dispersion/spraying/misting: In case of insufficient ventilation, wear suitable respiratory equipment. Where exposure through inhalation may occur from use, respiratory protection equipment is recommended.

Other information : Do not eat, drink or smoke during use.

Clean-Dry

Safety Data Sheet

according to Regulation (EC) No. 453/2010

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Slightly yellow.
Odour	: Orange citrus aroma.
Odour threshold	: No data available
pH	: 3 - 4
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: 65 °C (149 °F)
Flash point	: 41.1 °C (106 °F) (PMCC)
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: 2 mm Hg (at 20 °C)
Relative vapour density at 20 °C	: 4.7 (Air = 1)
Relative density	: No data available
Density	: 0.84 Specific Gravity
Solubility	: Water: Dispersible
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	: 94 % (Percent Volatiles)
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SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

The product is stable at normal handling and storage conditions. Exposure to heat may cause bursting.

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Open flame. keep away from incompatible materials.

10.5. Incompatible materials

Strong acids. Strong bases. Oxidizing agent.

10.6. Hazardous decomposition products

No additional information available

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity	: Not classified
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Alcohols, C12-14-secondary, ethoxylated (84133-50-6)

LD50 oral rat	2100 mg/kg
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Polyethylene glycol (25322-68-3)

LD50 dermal rabbit	> 20 ml/kg
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Skin corrosion/irritation	: Causes skin irritation. pH: 3 - 4
Serious eye damage/irritation	: Causes serious eye damage. pH: 3 - 4
Respiratory or skin sensitisation	: May cause an allergic skin reaction.

Clean-Dry

Safety Data Sheet

according to Regulation (EC) No. 453/2010

Germ cell mutagenicity	: Not classified Based on available data, the classification criteria are not met.
Carcinogenicity	: Not classified Based on available data, the classification criteria are not met.
Reproductive toxicity	: Not classified Based on available data, the classification criteria are not met.
Specific target organ toxicity (single exposure)	: Not classified Based on available data, the classification criteria are not met.
Specific target organ toxicity (repeated exposure)	: Not classified Based on available data, the classification criteria are not met.
Aspiration hazard	: May be fatal if swallowed and enters airways.
Potential Adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - water : Toxic to aquatic life with long lasting effects.

Alcohols, C12-14-secondary, ethoxylated (84133-50-6)

LC50 fishes 1	3.2 mg/l (Exposure time: 96 h - Species: Pimephales promelas)
EC50 Daphnia 1	3.2 mg/l (Exposure time: 48 h - Species: water flea)

12.2. Persistence and degradability

Clean-Dry

Persistence and degradability : May cause long-term adverse effects in the environment.

12.3. Bioaccumulative potential

Clean-Dry

Bioaccumulative potential : Not established.

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

: Avoid release to the environment

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Ensure all national/local regulations are observed. Can be incinerated according to local regulations.

Additional information : Do not re-use empty containers. Empty container retains product residue. Handle empty containers with care because residual vapours are flammable. Do not cut, grind, drill, weld, reuse or dispose off containers unless adequate precautions are taken against these hazards.

Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

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

14.1. UN number

UN-No. (ADR) : 1993

UN-No. (IMDG) : 1993

UN-No.(IATA) : 1993

14.2. UN proper shipping name

Proper Shipping Name (ADR) : FLAMMABLE LIQUID, N.O.S. (contains Terpenes and Terpenoids)

Proper Shipping Name (IMDG) : FLAMMABLE LIQUID, N.O.S. (contains Terpenes and Terpenoids)

Proper Shipping Name (IATA) : FLAMMABLE LIQUID, N.O.S. (contains Terpenes and Terpenoids)

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) : 3

Clean-Dry

Safety Data Sheet

according to Regulation (EC) No. 453/2010

Hazard labels (ADR) : 3



IMDG

Transport hazard class(es) (IMDG) : 3

Danger labels (IMDG) : 3



IATA

Transport hazard class(es) (IATA) : 3

Hazard labels (IATA) : 3



14.4. Packing group

Packing group (ADR) : III

Packing group (IMDG) : III

Packing group (IATA) : III

14.5. Environmental hazards

Dangerous for the environment : Yes

Marine pollutant : Yes

Other information : No supplementary information available

14.6. Special precautions for user

14.6.1. Overland transport

Classification code (ADR) : F1

Special provisions (ADR) : 274, 601, 640E

Limited quantities (ADR) : 5L

Excepted quantities (ADR) : E1

Packing instructions (ADR) : P001, IBC03, LP01, R001

Mixed packing provisions (ADR) : MP19

Portable tank and bulk container instructions (ADR) : T4

Portable tank and bulk container special provisions (ADR) : TP1, TP29

Tank code (ADR) : LGBF

Vehicle for tank carriage : FL

Transport category (ADR) : 3

Special provisions for carriage - Packages (ADR) : V12

Special provisions for carriage - Operation (ADR) : S2

Hazard identification number (Kemler No.) : 30

Orange plates :



Clean-Dry

Safety Data Sheet

according to Regulation (EC) No. 453/2010

Tunnel restriction code (ADR) : D/E
EAC code : •3YE

14.6.2. Transport by sea

Special provisions (IMDG) : 223, 274, 955
Limited quantities (IMDG) : 5 L
Excepted quantities (IMDG) : E1
Packing instructions (IMDG) : P001, LP01
IBC packing instructions (IMDG) : IBC03
Tank instructions (IMDG) : T4
Tank special provisions (IMDG) : TP1, TP29
Stowage category (IMDG) : A
MFAG-No : 127;128

14.6.3. Air transport

PCA Excepted quantities (IATA) : E1
PCA Limited quantities (IATA) : Y344
PCA limited quantity max net quantity (IATA) : 10L
PCA packing instructions (IATA) : 355
PCA max net quantity (IATA) : 60L
CAO packing instructions (IATA) : 366
CAO max net quantity (IATA) : 220L
Special provisions (IATA) : A3
ERG code (IATA) : 3L

14.6.4. Inland waterway transport

Not subject to ADN : No

14.6.5. Rail transport

Classification code (RID) : 5F
Carriage prohibited (RID) : 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

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	Clean-Dry
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.	Clean-Dry

Contains no substance on the REACH candidate list

VOC content : 94 % (Percent Volatiles)

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

Sources of Key data : 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 Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
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Clean-Dry

Safety Data Sheet

according to Regulation (EC) No. 453/2010

Asp. Tox. 1	Aspiration hazard, Category 1
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Flam. Liq. 3	Flammable liquids Category 3
Skin Irrit. 2	Skin corrosion/irritation Category 2
Skin Sens. 1	Sensitisation — Skin, category 1
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
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
H318	Causes serious eye damage
H335	May cause respiratory irritation
H411	Toxic to aquatic life with long lasting effects
R10	Flammable
R38	Irritating to skin
R41	Risk of serious damage to eyes
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R65	Harmful: may cause lung damage if swallowed
N	Dangerous for the environment
Xi	Irritant
Xn	Harmful

SDS EU (REACH Annex II)

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