

Safety Data Sheet: Domino

According to EC Regulation 1907/2006/EC - revision 2015/830

Revision No. 3.3

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SECTION 1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

1.1. Product identifier

Product Name: Domino
Product Code: 1064GX1 (CLP)

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

Recommended use

Surface sanitiser.

1.3. Details of the supplier of the safety data sheet

NCH European Technical Centre
Unit 2, Blakenhall Farm, Caldwell, Swadlincote,
Derbyshire, DE12 6RU
Tel.: 01902 510401.
E-mail address: reach@nch.com
Website address: www.ncheurope.com

1.4. Emergency telephone number

01902 510401 (available during Office Hours)

SECTION 2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP/GHS) and its adaptations

Flammable liquid: Category 3

Eye irritation: Category 2

H226 - Flammable liquid and vapor

H319 - Causes serious eye irritation

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP/GHS)

Hazard pictograms



Signal Word Warning

Hazard Statements

H226 - Flammable liquid and vapor

H319 - Causes serious eye irritation

Precautionary Statements

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P337 + P313 - If eye irritation persists: Get medical advice/attention

P370 + P378 - In case of fire, use water spray/foam/carbon dioxide/chemical powder to extinguish.

Keep out of reach of children.

For industrial and institutional use only.

Use biocides safely. Always read the label and product information before use.

2.3. Other hazards

No additional hazards identified.

The components in this formulation do not meet the criteria for classification as PBT or vPvB. As defined under the regulation EC 1907/2006.

SECTION 3. COMPOSITION / INFORMATION OF INGREDIENTS

3.2. Mixture

Chemical name	CAS No.	EC No.	EU - REACH Reg Number	Weight-%	EU - GHS/CLP	Notes
ETHANOL	64-17-5	200-578-6	01-2119457610-	25 - < 50	Flam. Liq. 2	

ISOPROPYL ALCOHOL	67-63-0	200-661-7	43 01-2119457558-25	10 - < 20	(H225) Flam. Liq. 2 (H225) STOT SE 3 (H336) Eye Irrit. 2 (H319)
DIDECYLDIMETHYLAMMONIUM CHLORIDE	7173-51-5	230-525-2	-	< 0.1	Acute Tox. 4 (H302) Skin Corr. 1B (H314) Aquatic Acute 1 (H400) Aquatic Chronic (H411)

This mixture contains substances with a Community workplace exposure limit. For any H statements mentioned in this section, see the full text in section 16.

SECTION 4. FIRST AID MEASURES

4.1. Description of first aid measures

General advice

Avoid breathing vapors or mists. Get medical attention immediately if symptoms occur.

Eye Contact

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation develops and persists.

Skin Contact

Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. Get medical attention if irritation develops and persists.

Ingestion

If swallowed, seek medical advice and show the container or label. Rinse mouth with water.

Inhalation

If exposed to high concentrations of the vapours / mists, move to fresh air.

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

Sensitization

No information available.

Eye contact

May cause irritation as itching and redness.

Skin contact

Unlikely to be irritant on brief or occasional exposure.

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

Notes to physician

Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use: Alcohol-resistant foam. Water foam. Water spray. Carbon dioxide (CO₂). Dry powder.

5.2. Special hazards arising from the substance or mixture

When exposed to high temperatures, the preparation may release dangerous decomposition products such as carbon monoxide and dioxide, smoke and/or nitrogen oxide.

Material can create slippery conditions.

5.3. Advice for firefighters

Firefighters should wear a self-contained breathing apparatus and full protective gear.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Avoid contact with skin, eyes, and clothing. Use personal protective equipment. Refer to protective measures listed in sections 7 and 8. Prevent further leakage or spillage if safe to do so. Material can create slippery conditions. Remove all sources of ignition. Ventilate the area.

6.2. Environmental precautions

Avoid release of neat product into surface water and sanitary sewage system.

6.3. Methods and material for containment and cleaning up

Methods for Containment

Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).

Methods for Cleaning up

Soak up with inert absorbent material. After cleaning, flush away traces with water.

6.4. Reference to other sections

Refer to sections 7, 8 and 13.

SECTION 7. HANDLING AND STORAGE**7.1. Precautions for safe handling**

Avoid contact with skin, eyes and clothing. Avoid breathing vapors or mists. Do not eat, drink or smoke when using this product. Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharges. Ensure adequate ventilation.

7.2. Conditions for safe storage, including any incompatibilities

Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place.

7.3. Specific end use(s)

No information available.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**8.1. Control parameters**Exposure limits

If vapours, fumes or mists are generated, their concentration in the workplace area should be kept to the lowest reasonable level. For substances.

Chemical name	European Union	The United Kingdom	France	Germany	Austria
ETHANOL		STEL: 3000 ppm STEL: 5760 mg/m ³ TWA: 1000 ppm TWA: 1920 mg/m ³	TWA: 1000 ppm TWA: 1900 mg/m ³ STEL: 5000 ppm STEL: 9500 mg/m ³	AGW: 200ppm AGW: 380mg/m ³ Peak: 800ppm Peak: 1520mg/m ³ TWA: 200ppm TWA: 380mg/m ³	STEL: 2000 ppm STEL: 3800 mg/m ³ TWA: 1000 ppm TWA: 1900 mg/m ³
ISOPROPYL ALCOHOL		STEL: 500 ppm STEL: 1250 mg/m ³ TWA: 400 ppm TWA: 999 mg/m ³	STEL: 400 ppm STEL: 980 mg/m ³	AGW: 200ppm AGW: 500mg/m ³ Peak: 400ppm Peak: 1000mg/m ³ TWA: 200ppm TWA: 500mg/m ³ BGW: 25mg/L	STEL: 800 ppm STEL: 2000 mg/m ³ TWA: 200 ppm TWA: 500 mg/m ³

Chemical name	Spain	Portugal	Italy	The Netherlands	Switzerland
ETHANOL	STEL: 1000 ppm STEL: 1910 mg/m ³	TWA: 1000 ppm		Skin STEL: 1900 mg/m ³ TWA: 260 mg/m ³	STEL: 1000 ppm STEL: 1920 mg/m ³ TWA: 500 ppm TWA: 960 mg/m ³
ISOPROPYL ALCOHOL	STEL: 400 ppm STEL: 1000 mg/m ³ TWA: 200 ppm TWA: 500 mg/m ³	STEL: 400 ppm TWA: 200 ppm			STEL: 400 ppm STEL: 1000 mg/m ³ TWA: 200 ppm TWA: 500 mg/m ³

Chemical name	Denmark	Finland	Norway	Sweden	Czech
ETHANOL	TWA: 1000 ppm TWA: 1900 mg/m ³	TWA: 1000 ppm TWA: 1900 mg/m ³ STEL: 1300 ppm STEL: 2500 mg/m ³	TWA: 500 ppm TWA: 950 mg/m ³	500 ppm 1000 mg/m ³ 1000 ppm 1900 mg/m ³	PEL: 1000mg/m ³ NPK-P: 3000mg/m ³
ISOPROPYL ALCOHOL	TWA: 200 ppm TWA: 490 mg/m ³	TWA: 200 ppm TWA: 500 mg/m ³ STEL: 250 ppm STEL: 620 mg/m ³	TWA: 100 ppm TWA: 245 mg/m ³	150 ppm 350 mg/m ³ 250 ppm 600 mg/m ³	PEL: 500mg/m ³ NPK-P: 1000mg/m ³

Chemical name	Poland	Ireland
ETHANOL	NDS: 1900 mg/m ³	STEL: 1000 ppm
ISOPROPYL ALCOHOL	NDSCh: 1200 mg/m ³ NDS: 900 mg/m ³	TWA: 200 ppm STEL: 400 ppm Skin

8.2. Exposure controlsEngineering Measures

Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment

Use personal protection equipment as per Directive 89/686/EEC.

Respiratory Protection

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Conforming to EN 14387 (organic vapours).

Hand Protection

Long term use eg: continuous wear or immersion;. Wear suitable protective gloves conforming to EN 374. Type of gloves suggested :. Solvent-resistant gloves (butyl-rubber). Nitrile rubber (0.4 mm). Neoprene gloves (0.4mm). Minimum breakthrough time of the glove material (protective index 4, breakthrough time: >120 min). Suitability and durability of a glove is dependent upon usage factors such as frequency, duration of use, temperature and chemical resistance. The use of a chemical-protective glove may in practice be much shorter than the permeation time determined through testing. For break through times, refer to glove manufacturers recommendations.

Eye Protection

Safety glasses if the method of use presents the likelihood of eye contact. Approved to EN 166.

General Hygiene Considerations

Do not eat, drink or smoke when using this product. Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**9.1. Information on basic physical and chemical properties**

Information below relates to typical values and does not constitute a specification.

Appearance	Colorless	Specific Gravity	0.9
Physical state	Liquid	Solubility	Soluble in water
Odor	Alcohol	Autoignition Temperature	No information available.
pH	11	Viscosity	Fluid
Melting Point/Range	-5 °C	Explosive properties	No information available
Boiling Point/Range	89 °C	Oxidizing Properties	No information available
Flash Point	25 °C	VOC Content (%)	58 %
Method	Closed cup		
Evaporation Rate	No information available		
Flammability Limits in Air %:	No information available		
Vapor pressure	> 0.01 kPa		
Vapor Density	No information available		

9.2. Other information

No other information available

SECTION 10. STABILITY AND REACTIVITY**10.1. Reactivity**

Not considered as highly reactive. See further information below.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

The mixture itself will not dangerously react or polymerise to create hazardous conditions in normal use.

10.4. Conditions to avoid

Heat, flames, and sparks.

10.5. Incompatible materials

No materials to be specially mentioned.

10.6. Hazardous decomposition products

None under normal storage conditions and use.

When exposed to high temperatures, the preparation may release dangerous decomposition products such as carbon monoxide and dioxide, smoke and/or nitrogen oxide.

SECTION 11. TOXICOLOGICAL INFORMATION**11.1. Information on toxicological effects**Product Information

The product itself has not been tested.

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
ETHANOL	= 7060 mg/kg (Rat)		= 124.7 mg/L (Rat) 4 h
ISOPROPYL ALCOHOL	= 1870 mg/kg (Rat)	= 4059 mg/kg (Rabbit)	= 72600 mg/m ³ (Rat) 4 h
DIDECYLDIMETHYLAMMONIUM CHLORIDE	= 238 mg/kg (Rat)	= 3342 mg/kg (Rabbit)	> 5.9 mg/L (Rat) 4 h

Sensitization

No information available.

Skin contact

Unlikely to be irritant on brief or occasional exposure.

Eye contact

May cause irritation as itching and redness.

Carcinogenicity

There are no known carcinogenic substances in this product.

Mutagenic Effects

There are no known mutagenic substances in this product.

Reproductive Effects

There are no known substances in this product with effects on reproduction.

SECTION 12. ECOLOGICAL INFORMATION**12.1. Toxicity**Product Information

The product itself has not been tested.

Chemical name	Toxicity to Fish	Crustacea	Toxicity to Algae
ETHANOL	LC50 12.0 - 16.0 mg/L Oncorhynchus mykiss 96 h LC50 > 100 mg/L Pimephales promelas 96 h LC50 13400 - 15100 mg/L Pimephales promelas 96 h	9268 - 14221: 48 h Daphnia magna mg/L LC50 2: 48 h Daphnia magna mg/L EC50 Static 10800: 24 h Daphnia magna mg/L EC50	
ISOPROPYL ALCOHOL	LC50 = 11130 mg/L Pimephales promelas 96 h LC50 = 9640 mg/L Pimephales promelas 96 h LC50 > 1400000 µg/L Lepomis macrochirus 96 h	= 13299 mg/L 48 h	EC50 > 1000 mg/L Desmodesmus subspicatus 72 h EC50 > 1000 mg/L Desmodesmus subspicatus 96 h
DIDECYLDIMETHYLAMMONIUM CHLORIDE	LC50 = 0.19 mg/L Fathead minnow 96 h	= 0.062 mg/L 48 h	EC50 = 0.026 mg/L Desmodesmus subspicatus 72 h

12.2. Persistence and degradability

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

12.3. Bioaccumulative potential

Not likely to bioaccumulate. Component information below.

Chemical name	Partition coefficient
ETHANOL	-0.32
ISOPROPYL ALCOHOL	0.05

12.4. Mobility in soil

Soluble in water.

12.5. Results of PBT and vPvB assessment

The components in this formulation do not meet the criteria for classification as PBT or vPvB. As defined under the regulation EC 1907/2006.

12.6. Other adverse effects

No data available.

SECTION 13. DISPOSAL CONSIDERATIONS**13.1. Waste treatment methods**Waste from Residues / Unused Products

Dispose of in accordance with local regulations.

Contaminated Packaging

Empty remaining contents. Rinse with water. Empty containers should be taken for local recycling, recovery or waste disposal. Recycle according to official regulations.

EWC waste disposal No

The following EWC/ AVV waste codes may be applicable:

07 06 01* aqueous washing liquids and mother liquors

Other Information

According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.

SECTION 14. TRANSPORT INFORMATION**14.1, 14.2, 14.3, 14.4.**

IMDG/IMO

UN Number	UN1170
UN proper shipping name	Etanol (Etylalkohol)
Hazard Class	3
Packing Group	III

EmS No.	F-E, S-D
ADR / RID	
UN-No	UN1170
Hazard Class	3
Packing Group	III
Classification Code	F1
Limited Quantity	5 L
Transport Cat. (Tunnel Restriction Code)	3 (D/E)
IATA/ICAO	
UN-No	UN1170
Hazard Class	3
Packing Group	III
ERG-Code	3L

14.5. Environmental hazards

The mixture is not environmentally hazardous for transport.

14.6. Special precautions for user

No special precautions.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Packaged product, not typically transported in IBC's.

Additional information

The above information is based on latest transport regulations i.e. ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport.

SECTION 15. REGULATORY INFORMATION

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

This mixture was classified in compliance with EC Regulation 1272/2008 (CLP) and its adaptations.

This product is for use as a biocide. This is a detergent product and complies with the Detergent Regulation (EC) No.648/2004. . .

Detergent labelling for contents (REGULATION (EC) No 648/2004 - 907/2006):

disinfectants

Biocide Labelling (Regulations 1896/2000, 1687/2002, 2032/2003, 1048/2005, 1849/2006, 1451/2007, 528/2012 - Directive 98/8/EC)

Active ingredient(s): ALCOHOL DENAT. 560 g/Kg DIDECYLDIMETHYLAMMONIUM CHLORIDE 0.15 g/Kg Product Type: PT 02 PT 04

15.2. Chemical safety assessment

No chemical safety assessment has been carried out for this mixture by the supplier

SECTION 16. OTHER INFORMATION

Text of H statements mentioned in Section 3

H225 - Highly flammable liquid and vapor. H319 - Causes serious eye irritation. H336 - May cause drowsiness or dizziness. H302 - Harmful if swallowed. H314 - Causes severe skin burns and eye damage. H400 - Very toxic to aquatic life. H411 - Toxic to aquatic life with long lasting effects.

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

On the basis of test data. H226 - Flammable liquid and vapor. Calculation method. H319 - Causes serious eye irritation.

Prepared By Austen Pimm

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Revision summary

CLP update. SDS sections updated 2 15 3 16

Abbreviations

REACH: Registration Evaluation Authorisation Restriction of Chemicals EU: European Union EC: European community EEC: European Economic Community UN: United Nations CAS: Chemical Abstracts Service PBT: Persistent Bioaccumulative Toxic vPvB: very Persistent very Bioaccumulative LC50: Lethal concentration, 50 percent LD50 : Lethal dose, 50 percent EC50: Effective concentration, 50 percent LogPow: LogP octanol/water VwVwS: Verwaltungsvorschrift wassergefährdende Stoffe (Administrative order relating to substances hazardous to water - Germany) WGK: Wassergefährdungsklasse (Water Hazard Class - Germany). AVV: Abfallverzeichnis-Verordnung (Waste Code - Germany) ADR: Accord européen relatif au transport international des marchandises Dangereuses par Route (European agreement governing the international carriage of dangerous goods by road) IMDG: International Maritime Dangerous Goods IATA: International Air Transport Association ICAO: International Civil Aviation Organisation RID: Reglement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations concerning the International carriage of Dangerous goods by rail) EmS: Emergency Response Procedures for Ships Carrying Dangerous Goods ERG: Emergency Response Guidebook IUCLID / RTECS International Uniform Chemical Information Database / Registry of Toxic Effects of Chemical Substances GHS: Globally Harmonised System of classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances VOC: Volatile Organic Chemical w/w: weight for weight DMSO: Dimethyl sulphoxide OECD: Organization for Economic Cooperation and Development STEL: Short Term Exposure Limit TWA: Time Weighted Average

Further Information

Component test results displayed in sections 11 and 12 are typically supplied by Chemadvisor and assembled from publicly available literature literature sources e.g. IUCLID / RTECS.

It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.

Disclaimer

The information provided on this SDS 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

End of Safety Data Sheet