

X-DUTY CLEANER (EU)

Chemwatch Safety Data Sheet (Conforms to Regulation (EC) No 1907/2006)
Issue Date: 21-Sep-2007
XCC160SC

Hazard Alert Code: HIGH

CHEMWATCH 6634-34
Version No:2.0
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Section 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME

X-DUTY CLEANER (EU)

SUPPLIER

Company: Dry- Treat Ltd
Address:
3 North Street
Oatby
Leicester, LE2 5AH
United Kingdom of Great Britain and Northern
Ireland
Telephone: 0800 0964 760
Telephone: +61 2 9954 3211
Emergency Tel: **Outside USA +1 (813) 248 0585**
Emergency Tel: **+61 2 9954 3211**
Fax: +61 2 9954 3162
Email: chemwatch@chemwatch.net

PRODUCT USE

Cleaner for tile, stone, paving and grout.

SYNONYMS

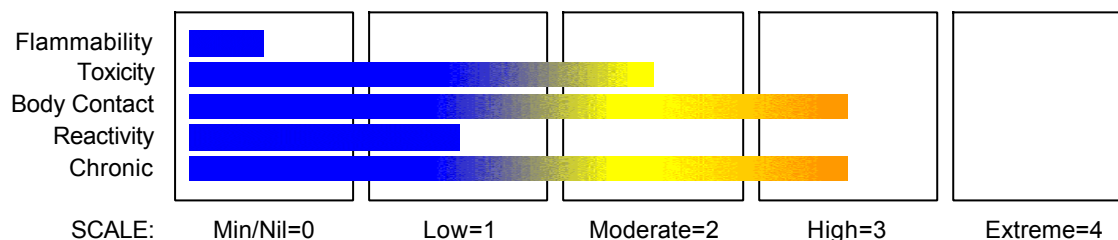
"stain preventer", "masonry sealant"

Section 2 - HAZARDS IDENTIFICATION

STATEMENT OF HAZARDOUS NATURE

CONSIDERED A DANGEROUS SUBSTANCE ACCORDING TO DIRECTIVE 1999/45/EC AND ITS AMENDMENTS.

HAZARD RATINGS



RISK

DSD/DPD classification (classification according to Directive 67/548/EEC or Directive 1999/45/EC)

Risk Codes
R22
R37/38
R41
R61(2)
R67
R68(3)

Risk Phrases
■ Harmful if swallowed.
■ Irritating to respiratory system and skin.
■ Risk of serious damage to eyes.
■ May cause harm to the unborn child.
■ Vapours may cause drowsiness and dizziness.
■ Possible risk of irreversible effects.

CLP classification (classification according to Regulation (EC) No 1272/2008)



Signal Word: DANGER

CLP classification

Acute Toxicity (Oral) Category 4
Germ Cell Mutagen Category 1B

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Section 2 - HAZARDS IDENTIFICATION

Reproductive Toxicity Category 1B
Respiratory Effects Category 3
Respiratory Irritation Category 3
Respiratory Sensitizer Category 1
Serious Eye Damage Category 1
Skin Corrosion/Irritation Category 2
Skin Sensitizer Category 1

Hazard statement(s)

H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness
H302	Harmful if swallowed
H334	May cause allergic or asthmatic symptoms or breathing difficulties if inhaled
H317	May cause allergic skin reaction
H340	May cause genetic defects
H360	May damage the unborn child
H318	Causes serious eye damage
H315	Causes skin irritation
H318	Causes serious eye damage

Determined by Chemwatch using CLP criteria:

Supplementary statement(s)

Precautionary statement(s)

Prevention

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264	Wash thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P281	Use personal protective equipment as required.
P285	In case of inadequate ventilation wear respiratory protection.

Response

P301+P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P304+P340	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
P304+P341	IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P310	Immediately call a POISON CENTER or doctor/physician.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P330	Rinse mouth.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P342+P311	If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
P363	Wash contaminated clothing before reuse.

Storage

P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.

Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

NAME	CAS RN	INT HAZ	%
gamma- butyrolactone EC NO: 202-509-5 R CODES: R22, R41, R68(3) Acute Toxicity (Oral) Category 4Germ Cell Mutagen Category 1BRespiratory Effects Category 3Serious Eye Damage Category 1	96-48-0	Xn	30-60
N- methyl- 2- pyrrolidone EC NO: 212-828-1 R CODES: R61, R36/37/38 Repr. 1Eye Irrit. 2STOT SE 3Skin Irrit. 2 Repr. 1 Eye Irrit. 2 STOT SE 3 Skin Irrit. 2 H360D***; H319; H335; H315	872-50-4	T	10-30
other ingredients not contributing to the classification			balance

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Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

Section 4 - FIRST AID MEASURES

SWALLOWED

- If swallowed do NOT induce vomiting.
- If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.
- Observe the patient carefully.
- Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious.
- Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink.
- Seek medical advice.

EYE

- If this product comes in contact with the eyes:
 - Immediately hold eyelids apart and flush the eye continuously with running water.
 - Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.
 - Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes.
 - Transport to hospital or doctor without delay.
- Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.

SKIN

- If skin contact occurs:
 - Immediately remove all contaminated clothing, including footwear.
 - Flush skin and hair with running water (and soap if available).
- Seek medical attention in event of irritation.

INHALED

- If fumes or combustion products are inhaled remove from contaminated area.
- Other measures are usually unnecessary.

NOTES TO PHYSICIAN

- Treat symptomatically.

Section 5 - FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA

- Water spray or fog.
- Foam.
- Dry chemical powder.
- BCF (where regulations permit).
- Carbon dioxide.

FIRE FIGHTING

- Alert Fire Brigade and tell them location and nature of hazard.
- Wear breathing apparatus plus protective gloves.
- Prevent, by any means available, spillage from entering drains or water courses.
- Use water delivered as a fine spray to control fire and cool adjacent area.
- DO NOT approach containers suspected to be hot.
- Cool fire exposed containers with water spray from a protected location.
- If safe to do so, remove containers from path of fire.
- Equipment should be thoroughly decontaminated after use.

FIRE/EXPLOSION HAZARD

- The material is not readily combustible under normal conditions.
- However, it will break down under fire conditions and the organic component may burn.
- Not considered to be a significant fire risk.
- Heat may cause expansion or decomposition with violent rupture of containers.
- Decomposes on heating and may produce toxic fumes of carbon monoxide (CO).
- May emit acrid smoke.

Combustion products include: carbon dioxide (CO₂), nitrogen oxides (NO_x), sulfur oxides (SO_x), other pyrolysis products typical of burning organic material.

May emit poisonous fumes.

May emit corrosive fumes.

FIRE INCOMPATIBILITY

- Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result.

Personal Protective Equipment

Gas tight chemical resistant suit.

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Section 5 - FIRE FIGHTING MEASURES

Limit exposure duration to 1 BA set 30 mins.

Section 6 - ACCIDENTAL RELEASE MEASURES

MINOR SPILLS

- Slippery when spilt.
- Remove all ignition sources.
- Clean up all spills immediately.
- Avoid breathing vapours and contact with skin and eyes.
- Control personal contact by using protective equipment.
- Contain and absorb spill with sand, earth, inert material or vermiculite.
- Wipe up.
- Place in a suitable, labelled container for waste disposal.

MAJOR SPILLS

- Slippery when spilt.
- Moderate hazard.
- Clear area of personnel and move upwind.
- Alert Fire Brigade and tell them location and nature of hazard.
- Wear breathing apparatus plus protective gloves.
- Prevent, by any means available, spillage from entering drains or water course.
- No smoking, naked lights or ignition sources.
- Increase ventilation.
- Stop leak if safe to do so.
- Contain spill with sand, earth or vermiculite.
- Collect recoverable product into labelled containers for recycling.
- Absorb remaining product with sand, earth or vermiculite.
- Collect solid residues and seal in labelled drums for disposal.
- Wash area and prevent runoff into drains.
- If contamination of drains or waterways occurs, advise emergency services.

Section 7 - HANDLING AND STORAGE

PROCEDURE FOR HANDLING

- DO NOT allow clothing wet with material to stay in contact with skin.
- Avoid all personal contact, including inhalation.
- Wear protective clothing when risk of exposure occurs.
- Use in a well-ventilated area.
- Prevent concentration in hollows and sumps.
- DO NOT enter confined spaces until atmosphere has been checked.
- DO NOT allow material to contact humans, exposed food or food utensils.
- Avoid contact with incompatible materials.
- When handling, DO NOT eat, drink or smoke.
- Keep containers securely sealed when not in use.
- Avoid physical damage to containers.
- Always wash hands with soap and water after handling.
- Work clothes should be laundered separately. Launder contaminated clothing before re-use.
- Use good occupational work practice.
- Observe manufacturer's storing and handling recommendations.
- Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions are maintained.

SUITABLE CONTAINER

- Metal can or drum
- Packaging as recommended by manufacturer.
- Check all containers are clearly labelled and free from leaks.

STORAGE INCOMPATIBILITY

- Avoid reaction with oxidising agents.

STORAGE REQUIREMENTS

- Store in original containers.
- Keep containers securely sealed.
- No smoking, naked lights or ignition sources.
- Store in a cool, dry, well-ventilated area.
- Store away from incompatible materials and foodstuff containers.
- Protect containers against physical damage and check regularly for leaks.
- Observe manufacturer's storing and handling recommendations.

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Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE CONTROLS

Source	Material	TWA ppm	TWA mg/m ³	STEL ppm	STEL mg/m ³	Peak ppm	Peak mg/m ³	TWA F/CC	Notes
European Union (EU) Third List of Indicative Occupational Exposure Limit Values (IOELVs) (English)	N- methyl- 2- pyrrolidone (n- Methyl- 2- pyrrolidone)	10	40	20	80				skin
UK Workplace Exposure Limits (WELs)	N- methyl- 2- pyrrolidone (1- Methyl- 2- pyrrolidone)	25	103	75	309				Sk, R36/38

The following materials had no OELs on our records

• gamma- butyrolactone:

CAS:96- 48- 0

PERSONAL PROTECTION



RESPIRATOR

Type AK-P Filter of sufficient capacity

EYE

- Safety glasses with side shields.
- Chemical goggles.
- Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59].

HANDS/FEET

- Wear chemical protective gloves, eg. PVC.
- Wear safety footwear or safety gumboots, eg. Rubber.

NOTE:

- The material may produce skin sensitisation in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.
 - Contaminated leather items, such as shoes, belts and watch-bands should be removed and destroyed.
- Suitability and durability of glove type is dependent on usage. Important factors in the selection of gloves include: such as:
- frequency and duration of contact,
 - chemical resistance of glove material,
 - glove thickness and
 - dexterity
- Select gloves tested to a relevant standard (e.g. Europe EN 374, US F739).
- When prolonged or frequently repeated contact may occur, a glove with a protection class of 5 or higher (breakthrough time greater than 240 minutes according to EN 374) is recommended.
 - When only brief contact is expected, a glove with a protection class of 3 or higher (breakthrough time greater than 60 minutes according to EN 374) is recommended.
 - Contaminated gloves should be replaced.

Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturiser is recommended.

OTHER

- Overalls.
- P.V.C. apron.
- Barrier cream.
- Skin cleansing cream.
- Eye wash unit.

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Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS

■ General exhaust is adequate under normal operating conditions. Local exhaust ventilation may be required in specific circumstances. If risk of overexposure exists, wear approved respirator. Correct fit is essential to obtain adequate protection. Provide adequate ventilation in warehouse or closed storage areas.

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL PROPERTIES

Liquid.

Mixes with water.

State	Liquid	Molecular Weight	Not Applicable
Melting Range (°C)	Not Available	Viscosity	Not Available
Boiling Range (°C)	Not Available	Solubility in water (g/L)	Miscible
Flash Point (°C)	Not Applicable	pH (1% solution)	Not Available
Decomposition Temp (°C)	Not Available	pH (as supplied)	Not Available
Autoignition Temp (°C)	Not Applicable	Vapour Pressure (kPa)	Not Available
Upper Explosive Limit (%)	Not Applicable	Specific Gravity (water=1)	0.90
Lower Explosive Limit (%)	Not Applicable	Relative Vapour Density (air=1)	Not Available
Volatile Component (%vol)	Not Available	Evaporation Rate	Not Available

APPEARANCE

Clear liquid with a characteristic odour, dispersible in water.

Section 10 - CHEMICAL STABILITY

CONDITIONS CONTRIBUTING TO INSTABILITY

- Presence of incompatible materials.
- Product is considered stable.
- Hazardous polymerisation will not occur.

For incompatible materials - refer to Section 7 - Handling and Storage.

Section 11 - TOXICOLOGICAL INFORMATION

POTENTIAL HEALTH EFFECTS

GHS Hazard Phrases

May cause respiratory irritation
May cause drowsiness or dizziness
Harmful if swallowed
May cause allergic or asthmatic symptoms or breathing difficulties if inhaled
May cause allergic skin reaction
May cause genetic defects
May damage the unborn child
Causes serious eye damage
Causes skin irritation
Causes serious eye damage

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TOXICITY AND IRRITATION

■ The material may produce severe irritation to the eye causing pronounced inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis.

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Section 12 - ECOLOGICAL INFORMATION

No data

Ecotoxicity

Ingredient	Persistence: Water/Soil	Persistence: Air	Bioaccumulation	Mobility
gamma- butyrolactone	LOW		LOW	HIGH
N- methyl- 2- pyrrolidone	LOW		LOW	HIGH

Section 13 - DISPOSAL CONSIDERATIONS

• Containers may still present a chemical hazard/ danger when empty.

• Return to supplier for reuse/ recycling if possible.

Otherwise:

• If container can not be cleaned sufficiently well to ensure that residuals do not remain or if the container cannot be used to store the same product, then puncture containers, to prevent re-use, and bury at an authorised landfill.

• Where possible retain label warnings and MSDS and observe all notices pertaining to the product.

Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area. In some areas, certain wastes must be tracked.

A Hierarchy of Controls seems to be common - the user should investigate:

• Reduction

• Reuse

• Recycling

• Disposal (if all else fails)

This material may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use. If it has been contaminated, it may be possible to reclaim the product by filtration, distillation or some other means. Shelf life considerations should also be applied in making decisions of this type. Note that properties of a material may change in use, and recycling or reuse may not always be appropriate.

• DO NOT allow wash water from cleaning or process equipment to enter drains.

• It may be necessary to collect all wash water for treatment before disposal.

• In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.

• Where in doubt contact the responsible authority.

• Recycle wherever possible or consult manufacturer for recycling options.

• Consult State Land Waste Authority for disposal.

• Bury or incinerate residue at an approved site.

• Recycle containers if possible, or dispose of in an authorised landfill.

■ According to the European Waste Catalogue, Waste Codes are not product specific but application specific. Waste Codes should be assigned by the User based on the application in which the product is used.

Section 14 - TRANSPORTATION INFORMATION

HAZCHEM:

None

NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS: ADR, IATA, IMDG

Section 15 - REGULATORY INFORMATION



ANNEX 1

N- methyl- 2- pyrrolidone

606- 021- 00- 7

RISK

Risk Codes

R22

R37/38

Risk Phrases

■ Harmful if swallowed.

■ Irritating to respiratory system and skin.

continued...

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R41
R61(2)
R67
R68(3)

- Risk of serious damage to eyes.
- May cause harm to the unborn child.
- Vapours may cause drowsiness and dizziness.
- Possible risk of irreversible effects.

SAFETY

Safety Codes

S01
S23
S38

S53
S40

S35
S13

Safety Phrases

- Keep locked up.
- Do not breathe gas/ fumes/ vapour/ spray.
- In case of insufficient ventilation, wear suitable respiratory equipment.
- Avoid exposure - obtain special instructions before use.
- To clean the floor and all objects contaminated by this material, use water.
- This material and its container must be disposed of in a safe way.
- Keep away from food, drink and animal feeding stuffs.

ANNEX 2: Indications of Danger

T Toxic

Annex VI



H335
H336
H302
H334

H317
H340
H360
H318
H315
H318

May cause respiratory irritation
May cause drowsiness or dizziness
Harmful if swallowed
May cause allergic or asthmatic symptoms or breathing difficulties if inhaled

May cause allergic skin reaction
May cause genetic defects
May damage the unborn child
Causes serious eye damage
Causes skin irritation
Causes serious eye damage

Determined by Chemwatch using CLP criteria:

Supplementary statement(s)

Precautionary statement(s)

Prevention

P201
P202

P261
P264
P270
P271
P272
P280

P281
P285

Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.

Avoid breathing dust/fume/gas/mist/vapours/spray.
Wash thoroughly after handling.
Do not eat, drink or smoke when using this product.
Use only outdoors or in a well-ventilated area.
Contaminated work clothing should not be allowed out of the workplace.
Wear protective gloves/protective clothing/eye protection/face protection.
Use personal protective equipment as required.
In case of inadequate ventilation wear respiratory protection.

Response

P301+P312
P302+P352
P304+P340

P304+P341

P305+P351+P338

P308+P313
P310
P312
P330
P333+P313
P342+P311

P363

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
IF ON SKIN: Wash with plenty of soap and water.
IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
IF exposed or concerned: Get medical advice/attention. Immediately call a POISON CENTER or doctor/physician.
Call a POISON CENTER or doctor/physician if you feel unwell.
Rinse mouth.
If skin irritation or rash occurs: Get medical advice/attention.
If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
Wash contaminated clothing before reuse.

Storage

P403+P233
P405

Store in a well-ventilated place. Keep container tightly closed.
Store locked up.

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Section 15 - REGULATORY INFORMATION

REGULATIONS

Regulations for ingredients

gamma-butyrolactone (CAS: 96-48-0) is found on the following regulatory lists;

"Denmark Advisory list for selfclassification of dangerous substances", "Denmark Indicative List of Organic Solvents (Danish)", "Denmark Indicative List of Organic Solvents (English)", "Europäische Datenbank kommerzieller Altstoffe", "European Chemicals Agency (ECHA) List of substances identified for registration in 2010", "European Customs Inventory of Chemical Substances - ECICS (Danish)", "European Customs Inventory of Chemical Substances - ECICS (Dutch)", "European Customs Inventory of Chemical Substances - ECICS (Finnish)", "European Customs Inventory of Chemical Substances - ECICS (French)", "European Customs Inventory of Chemical Substances - ECICS (German)", "European Customs Inventory of Chemical Substances - ECICS (Greek)", "European Customs Inventory of Chemical Substances - ECICS (Italian)", "European Customs Inventory of Chemical Substances - ECICS (Portuguese)", "European Customs Inventory of Chemical Substances - ECICS (Spanish)", "European Customs Inventory of Chemical Substances - ECICS (Swedish)", "European Customs Inventory of Chemical Substances (English)", "European Union - European Inventory of Existing Commercial Chemical Substances (EINECS) (English)", "European Union (EU) Inventory of Fragrance Ingredients (Perfume and Aromatic Raw Materials)", "European Union (EU) Inventory of Ingredients used in Cosmetic Products", "Finland Occupational Exposure Levels - Intended Changes (Swedish)", "GESAMP/EHS Composite List - GESAMP Hazard Profiles", "IMO IBC Code Chapter 17: Summary of minimum requirements", "IMO MARPOL 73/78 (Annex II) - List of Noxious Liquid Substances Carried in Bulk", "International Agency for Research on Cancer (IARC) - Agents Reviewed by the IARC Monographs", "International Council of Chemical Associations (ICCA) - High Production Volume List", "International Fragrance Association (IFRA) Survey: Transparency List", "Inventaire Européen des Substances Chimiques Commerciales Existantes (EINECS)", "Inventario Europeo de Substancias Químicas Comerciales Existentes (EINECS)", "OECD Representative List of High Production Volume (HPV) Chemicals", "Russia Maximum Allowed Concentrations (PDK) of Harmful Substances in the Air of Workplace Zone (Russian)"

N-methyl-2-pyrrolidone (CAS: 872-50-4,26138-58-9) is found on the following regulatory lists;

"Austria Occupational Exposure Limits - Maximum Workplace Concentrations (MAK) (German)", "Chemwatch Candidate List of Very High Concern - List of Substance Subject to Authorization", "Denmark Indicative List of Organic Solvents (Danish)", "Denmark Indicative List of Organic Solvents (English)", "Denmark Limit values for air pollutants (English)", "Denmark List of Effects", "España, Valores Límite Ambientales (VLA)", "Estonia Limit values for chemical hazards in the working environment (English)", "Estonia Limit values for chemical hazards in the working environment (Estonian)", "Europäische Datenbank kommerzieller Altstoffe", "European Chemicals Agency (ECHA) List of substances identified for registration in 2010", "European Customs Inventory of Chemical Substances - ECICS (Danish)", "European Customs Inventory of Chemical Substances - ECICS (Dutch)", "European Customs Inventory of Chemical Substances - ECICS (Finnish)", "European Customs Inventory of Chemical Substances - ECICS (French)", "European Customs Inventory of Chemical Substances - 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Concentrations Known to be Harmful (Swedish)", "Germany Recommended Exposure Limits - MAK Values - Pregnancy Risk Group Classifications & Germ Cell Mutagens", "Germany Recommended Exposure Limits - MAK Values (English)", "Germany TRGS 900 - Limit Values for the Workplace Atmosphere (German)", "GESAMP/EHS Composite List - GESAMP Hazard Profiles", "Grøntseværdier for luftforurening", "Greece Occupational Exposure Limits", "Iceland Occupational Exposure Limits (Icelandic)", "IMO IBC Code Chapter 17: Summary of minimum requirements", "IMO MARPOL 73/78 (Annex II) - List of Noxious Liquid Substances Carried in Bulk", "International Council of Chemical Associations (ICCA) - High Production Volume List", "Inventaire Européen des Substances Chimiques Commerciales Existantes (EINECS)", "Inventario Europeo de Substancias Químicas Comerciales Existentes (EINECS)", "Ireland Occupational Exposure Limits", "Latvia Occupational Exposure Limit Values (OELV) for Chemical Substances in the Work Environment Atmosphere (Latvian)", "Maximale Arbeitsplatzkonzentration (MAK)", "Norway Administrative Norms for Air Contamination in the Workplace", "OECD Representative List of High Production Volume (HPV) Chemicals", "Poland Workplace Maximum Allowable Concentration (Polish)", "Russia Maximum Allowed Concentrations (PDK) of Harmful Substances in the Air of Workplace Zone (Russian)", "Spain Occupational Exposure Limit for Chemical Agents", "Sweden Occupational Exposure Limit Values (Swedish)", "Sweden Occupational Exposure Limit Values and Measures against Air Contaminants (English)", "Switzerland Occupational Exposure Limits (German)", "UK Workplace Exposure Limits (WELs)"

No data for X-Duty Cleaner (EU) (CW: 6634-34)

This safety data sheet is in compliance with the following EU legislation and its adaptations – as far as applicable - : 67/548/EEC, 1999/45/EC, 76/769/EEC, 98/24/EC, 92/85/EEC, 94/33/EC, 91/689/EEC, 1999/13/EC, as well as the following British legislation:

- The Control of Substances Hazardous to Health Regulations (COSHH) 2002
- COSHH Essentials
- The Management of Health and Safety at Work Regulations 1999

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LIMITED EVIDENCE

#Regulations for ingredients

#gamma- butyrolactone (CAS: 96- 48- 0) is found on the following regulatory lists;

" Denmark Advisory list for selfclassification of dangerous substances" , " Denmark Indicative List of Organic Solvents (Danish)" , " Denmark Indicative List of Organic Solvents (English)" , " Europäische Datenbank kommerzieller Altstoffe" , " European Chemicals Agency (ECHA) List of substances identified for registration in 2010" , " European Customs Inventory of Chemical Substances - ECICS (Danish)" , " European Customs Inventory of Chemical Substances - ECICS (Dutch)" , " European Customs Inventory of Chemical Substances - ECICS (Finnish)" , " European Customs Inventory of Chemical Substances - ECICS (French)" , " European Customs Inventory of Chemical Substances - ECICS (German)" , " European Customs Inventory of Chemical Substances - ECICS (Greek)" , " European Customs Inventory of Chemical Substances - ECICS (Italian)" , " European Customs Inventory of Chemical Substances - ECICS (Portuguese)" , " European Customs Inventory of Chemical Substances - ECICS (Spanish)" , " European Customs Inventory of Chemical Substances - ECICS (Swedish)" , " European Customs Inventory of Chemical Substances (English)" , " European Union - European Inventory of Existing Commercial Chemical Substances (EINECS) (English)" , " European Union (EU) Inventory of Fragrance Ingredients (Perfume and Aromatic Raw Materials)" , " European Union (EU) Inventory of Ingredients used in Cosmetic Products" , " Finland Occupational Exposure Levels - Intended Changes (Swedish)" , " GESAMP/EHS Composite List - GESAMP Hazard Profiles" , " IMO IBC Code Chapter 17: Summary of minimum requirements" , " IMO MARPOL 73/78 (Annex II) - List of Noxious Liquid Substances Carried in Bulk" , " International Agency for Research on Cancer (IARC) - Agents Reviewed by the IARC Monographs" , " International Council of Chemical Associations (ICCA) - High Production Volume List" , " International Fragrance Association (IFRA) Survey: Transparency List" , " Inventaire Européen des Substances Chimiques Commerciales Existantes (EINECS)" , " Inventario Europeo de Substancias Químicas Comerciales Existentes (EINECS)" , " OECD Representative List of High Production Volume (HPV) Chemicals" , " Russia Maximum Allowed Concentrations (PDK) of Harmful Substances in the Air of Workplace Zone (Russian)"

#N- methyl- 2- pyrrolidone (CAS: 872- 50- 4, 26138- 58- 9) is found on the following regulatory lists;

" Austria Occupational Exposure Limits - Maximum Workplace Concentrations (MAK) (German)" , " Chemwatch Candidate List of Very High Concern - List of Substance Subject to Authorization" , " Denmark Indicative List of Organic Solvents (Danish)" , " Denmark Indicative List of Organic Solvents (English)" , " Denmark Limit values for air pollutants (English)" , " Denmark List of Effects" , " España, Valores Límite Ambientales (VLA)" , " Estonia Limit values for chemical hazards in the working environment (English)" , " Estonia Limit values for chemical hazards in the working environment (Estonian)" , " Europäische Datenbank kommerzieller Altstoffe" , " European Chemicals Agency (ECHA) List of substances identified for registration in 2010" , " European Customs Inventory of Chemical Substances - ECICS (Danish)" , " European Customs Inventory of Chemical Substances - ECICS (Dutch)" , " European Customs Inventory of Chemical Substances - ECICS (Finnish)" , " European Customs Inventory of Chemical Substances - ECICS (French)" , " European Customs Inventory of Chemical Substances - ECICS (German)" , " European Customs Inventory of Chemical Substances - ECICS (Greek)" , " European Customs Inventory of Chemical Substances - ECICS (Italian)" , " European Customs Inventory of Chemical Substances - ECICS (Portuguese)" , " European Customs Inventory of Chemical Substances - ECICS (Spanish)" , " European Customs Inventory of Chemical Substances - ECICS (Swedish)" , " European Customs Inventory of Chemical Substances (English)" , " European Union - European Inventory of Existing Commercial Chemical Substances (EINECS) (English)" , " European Union (EU) Annex I to Directive 67/548/EEC on Classification and Labelling of Dangerous Substances - updated by ATP: 31" , " European Union (EU) Control of Major Accident Hazards Involving Dangerous Substances - Seveso Category" , " European Union (EU) Regulation (EC) No 1272/2008 on Classification, Labelling and Packaging of Substances and Mixtures - Annex VI" , " European Union (EU) Third List of Indicative Occupational Exposure Limit Values (IOELVs) (Czech)" , " European Union (EU) Third List of Indicative Occupational Exposure Limit Values (IOELVs) (Danish)" , " European Union (EU) Third List of Indicative Occupational Exposure Limit Values (IOELVs) (Dutch)" , " European Union (EU) Third List of Indicative Occupational Exposure Limit Values (IOELVs) (English)" , " European Union (EU) Third List of Indicative Occupational Exposure Limit Values (IOELVs) (Estonian)" , " European Union (EU) Third List of Indicative Occupational Exposure Limit Values (IOELVs) (Finnish)" , " European Union (EU) Third List of Indicative Occupational Exposure Limit Values (IOELVs) (French)" , " European

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Union (EU) Third List of Indicative Occupational Exposure Limit Values (IOELVs) (German)", " European Union (EU) Third List of Indicative Occupational Exposure Limit Values (IOELVs) (Greek)", " European Union (EU) Third List of Indicative Occupational Exposure Limit Values (IOELVs) (Hungarian)", " European Union (EU) Third List of Indicative Occupational Exposure Limit Values (IOELVs) (Italian)", " European Union (EU) Third List of Indicative Occupational Exposure Limit Values (IOELVs) (Latvian)", " European Union (EU) Third List of Indicative Occupational Exposure Limit Values (IOELVs) (Lithuanian)", " European Union (EU) Third List of Indicative Occupational Exposure Limit Values (IOELVs) (Maltese)", " European Union (EU) Third List of Indicative Occupational Exposure Limit Values (IOELVs) (Polish)", " European Union (EU) Third List of Indicative Occupational Exposure Limit Values (IOELVs) (Portuguese)", " European Union (EU) Third List of Indicative Occupational Exposure Limit Values (IOELVs) (Slovak)", " European Union (EU) Third List of Indicative Occupational Exposure Limit Values (IOELVs) (Slovenian)", " European Union (EU) Third List of Indicative Occupational Exposure Limit Values (IOELVs) (Spanish)", " European Union (EU) Third List of Indicative Occupational Exposure Limit Values (IOELVs) (Swedish)", " Finland Occupational Exposure Levels - Concentrations Known to be Harmful (Swedish)", " Germany Recommended Exposure Limits - MAK Values - Pregnancy Risk Group Classifications & Germ Cell Mutagens", " Germany Recommended Exposure Limits - MAK Values (English)", " Germany TRGS 900 - Limit Values for the Workplace Atmosphere (German)", " GESAMP/EHS Composite List - GESAMP Hazard Profiles", " Grøenseværdier for luftforurening", " Greece Occupational Exposure Limits", " Iceland Occupational Exposure Limits (Icelandic)", " IMO IBC Code Chapter 17: Summary of minimum requirements", " IMO MARPOL 73/78 (Annex II) - List of Noxious Liquid Substances Carried in Bulk", " International Council of Chemical Associations (ICCA) - High Production Volume List", " Inventaire Européen des Substances Chimiques Commerciales Existantes (EINECS)", " Inventario Europeo de Substancias Químicas Comerciales Existentes (EINECS)", " Ireland Occupational Exposure Limits", " Latvia Occupational Exposure Limit Values (OELV) for Chemical Substances in the Work Environment Atmosphere (Latvian)", " Maximale Arbeitsplatzkonzentration (MAK)", " Norway Administrative Norms for Air Contamination in the Workplace", " OECD Representative List of High Production Volume (HPV) Chemicals", " Poland Workplace Maximum Allowable Concentration (Polish)", " Russia Maximum Allowed Concentrations (PDK) of Harmful Substances in the Air of Workplace Zone (Russian)", " Spain Occupational Exposure Limit for Chemical Agents", " Sweden Occupational Exposure Limit Values (Swedish)", " Sweden Occupational Exposure Limit Values and Measures against Air Contaminants (English)", " Switzerland Occupational Exposure Limits (German)", " UK Workplace Exposure Limits (WELs)"

#No data for X- Duty Cleaner (EU) (CW: 6634- 34)

RISK

Explanation of risk codes used on this MSDS

Risk Codes

R22
R36/37/38
R37/38
R41
R61(2)
R61
R67
R68(3)

Risk Phrases

- Harmful if swallowed.
- Irritating to eyes, respiratory system and skin.
- Irritating to respiratory system and skin.
- Risk of serious damage to eyes.
- May cause harm to the unborn child.
- May cause harm to the unborn child.
- Vapours may cause drowsiness and dizziness.
- Possible risk of irreversible effects.

ANNEX 2: Indications of Danger

T Toxic
Xn Harmful

ND

Substance	CAS	Suggested codes
gamma- butyrolactone	96- 48- 0	

INGREDIENTS WITH MULTIPLE CAS NUMBERS

Ingredient Name	CAS
N-methyl-2-pyrrolidone	872-50-4, 26138-58-9

■ Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

A list of reference resources used to assist the committee may be found at:
www.chemwatch.net/references.

■ The (M)SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards

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are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

■ For detailed advice on Personal Protective Equipment, refer to the following EU CEN Standards:

- EN 16 Personal eye-protection
- EN 340 Protective clothing
- EN 374 Protective gloves against chemicals and micro-organisms
- EN 13832 Footwear protecting against chemicals
- EN 133 Respiratory protective devices.

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