

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Product identifier:

Trade name: Nexsol Vapour Degreaser

Registration number: All substances used in this mixture have been registered/pre-registered under the REACH regulations, see below for further details. Refer to our office if you require additional information.

Relevant identified uses of the substance or mixture and uses advised against: No further relevant information available.

Application of the substance / the mixture Solvent degreaser:

Uses advised against: Food contact, additive.
Not for sale/use by public. Industrial uses only.

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2. HAZARDS IDENTIFICATION

Classification of the substance or mixture:

Classification according to Regulation (EC) No 1272/2008:



GHS08 health hazard

Carc. 2: H351 Suspected of causing cancer.
STOT SE 2: H371 May cause damage to organs.



GHS07

Acute Tox. 4: H302 Harmful if swallowed.
Skin Irrit. 2: H315 Causes skin irritation.
Eye Irrit. 2: H319 Causes serious eye irritation.
STOT SE 3: H336 May cause drowsiness or dizziness.

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Label elements:

Labelling according to Regulation (EC) No 1272/2008:

The product is classified and labelled according to the CLP regulation.

Hazard pictograms:



GHS07

GHS08

Signal word:

Warning

Hazard-determining components of labelling:

Dichloromethane:

REACH Reg No.: 01-2119480404-41-XXXX

Methanol:

REACH Reg No.: 01-2119433307-44-XXXX

Hazard statements:

H302 Harmful if swallowed.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H351 Suspected of causing cancer.
H371 May cause damage to organs.
H336 May cause drowsiness or dizziness.

Precautionary statements:

P280 Wear protective gloves/protective clothing/eye protection/face protection.
P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P321 Specific treatment (see on this label).
P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
P308+P313 IF exposed or concerned: Get medical advice/attention.
P405 Store locked up.

Additional information:

Can become highly flammable in use.
Labelling of packages where the contents do not exceed 125 ml

Precautionary statements:

Precautionary statements are suggested in line with H Phrases, others may apply. This list is not exhaustive. Label space limits to 6/7 statements.

Other hazards:

Results of PBT and vPvB assessment:

PBT: Not applicable.

vPvB: Not applicable.

[cont...]

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical characterisation: Mixtures
Description: Mixture of substances listed below with non-hazardous additions.
Dangerous components:
Dichloromethane:
CAS: 75-09-2
EINECS: 200-838-9
REACH Reg No.: 01-2119480404-41-XXXX
Percent: 50-100%
Carc. 2, H351
Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H336

2-propanone:
CAS: 67-64-1
EINECS: 200-662-2
REACH Reg No.: 01-2119471330-49-XXXX
Percent: <10%
Flam. Liq. 2, H225
Eye Irrit. 2, H319; STOT SE 3, H336

Methanol:
CAS: 67-56-1
EINECS: 200-659-6
REACH Reg No.: 01-2119433307-44-XXXX
Percent: <10%
Flam. Liq. 2, H225
Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331
STOT SE 1, H370

SVHC No substance within this mixture is listed as an SVHC at the date this document was created.
Additional information: For the wording of the listed hazard phrases refer to section 16.

4. FIRST AID MEASURES (SYMPTOMS)

Description of first aid measures:

General information: Immediately remove any clothing soiled by the product. If liquid has completely soaked through garments to skin, wash skin thoroughly with mild soap and water. Treat soaked clothing as hazardous waste and observe all precautions for the substances. Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the incident.

After inhalation: Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. In case of unconsciousness place patient stably in side position for transportation. Take affected persons into fresh air and keep quiet. Seek immediate medical advice.

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- After skin contact:** Immediately wash with water and soap and rinse thoroughly. Remove contaminated clothing. Dispose of contaminated clothing as hazardous waste. Observe precautions. If skin irritation continues, consult a doctor. Repeated skin contact may result in irritation and dermatitis. Always wear protective gloves suitable for this product.
- After eye contact:** Rinse opened eye for at least 15 minutes under clean running water. Remove contact lenses if possible. Seek immediate medical advice. Continue to irrigate the eye with clean water. Seek immediate medical advice.
- After swallowing:** Do NOT induce vomiting; rinse mouth with water, call for medical help immediately. Call for a doctor immediately.

Most important symptoms and effects, both acute and delayed:

Headache
Dizziness
Nausea
Unconsciousness

Indication of any immediate medical attention and special treatment needed: No further relevant information available.

5. FIRE-FIGHTING MEASURES

Extinguishing media:

Suitable extinguishing agents: CO₂, powder or water spray. Fight larger fires with aqueous film forming foam (AFFF). Cool containers with water spray.

For safety reasons unsuitable extinguishing agents: Water with full jet

Special hazards arising from the substance or mixture: Hydrogen chloride (HCl)

Phosgene gas
Carbon monoxide (CO), if incomplete combustion.

Advice for firefighters:

Protective equipment: Wear self-contained respiratory protective device.

Additional information: Collect contaminated fire-fighting water separately. It must not enter the sewage system.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation. Keep people at a distance and stay on the windward side. Wear protective clothing.

Environmental precautions:

In case of seepage into the ground inform responsible authorities. Ensure storage area for containers is fully bunded to contain min.110% of volume of largest container capacity in storage area. Do not allow to enter sewers/ surface or ground water.

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Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.
Send for recovery or disposal in suitable receptacles - may need to be UN approved.

Reference to other sections:

See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7. HANDLING AND STORAGE

Precautions for safe handling:

Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
Take note of emission threshold.
Use only in well ventilated areas.
Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).

Information about fire - and explosion protection:

Do not spray onto a naked flame, hot surfaces, electrical switchgear, live/battery connected electrics, or near to any potential sources of ignition.

Conditions for safe storage, including any incompatibilities:

Storage:

Requirements to be met by storerooms and receptacles:

Provide solvent resistant, sealed floor.
Prevent any seepage into the ground.
Use only receptacles specifically permitted for this substance/product.
Unsuitable material for receptacle: aluminium.

Information about storage in one common storage facility:

Do not store together with oxidising and acidic materials.

Further information about storage conditions:

Keep container tightly sealed.
Store in a cool place.
Store away from boundaries, unless segregated by a fire wall/barrier.
Ensure no public access is possible to the containers. Store securely.

Specific end use(s):

No further relevant information available.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Additional information about design of technical facilities: No further data; see item 7.

Control parameters:

Ingredients with limit values that require monitoring at the workplace:

75-09-2 dichloromethane

REACH Reg No.: 01-2119480404-41-XXXX

WEL:

Short-term value: 1060 mg/m³, 300 ppm

Long-term value: 350 mg/m³, 100 ppm

BMGV, Sk

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67-64-1 2-propanone

REACH Reg No.: 01-2119471330-49-XXXX

WEL:

Short-term value: 3620 mg/m³, 1500 ppm

Long-term value: 1210 mg/m³, 500 ppm

67-56-1 Methanol

REACH Reg No.: 01-2119433307-44-XXXX

WEL:

Short-term value: 333 mg/m³, 250 ppm

Long-term value: 266 mg/m³, 200 ppm

Sk

Ingredients with biological limit values:

75-09-2 dichloromethane

REACH Reg No.: 01-2119480404-41-XXXX

BMGV: 30 ppm

Medium: End-tidal breath

Sampling time: Post shift

Parameter: Carbon monoxide

Additional information: The lists valid during the making were used as basis.

Exposure controls:

Personal protective equipment:

General protective and hygienic measures: Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Avoid alcohol consumption while working with the product.

Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Filter A - For Organic vapours with boiling point > 65°C

Filter AX - For Organic vapours with boiling point < 65°C - Single use/limited use filter

You should refer to the respirator/filter manufacturer for final guidance on the type of mask and filter to use.

Recommended filter device for short term use: Filter AX

Protection of hands:



Protective gloves

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Solvent resistant gloves. Use gloves approved to BS EN 374: Protective Gloves against Chemicals.

Chemical Resistant Gloves, class 4 or higher for prolonged exposure.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

Material of gloves: The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material: The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection: Safety glasses

Body protection: Protective work clothing, ideally with anti-static properties.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties:

General Information:

Appearance:

Form: Liquid
Colour: Colourless (Aged product may darken depending upon storage conditions and time period)
Odour: Ether-like
Odour threshold: Not determined.
pH-value: Not determined.

Change in condition:

Melting point/freezing point: Undetermined.
Initial boiling point and boiling range: 40 °C
Flash point: Not applicable.
Flammability (solid, gas): Not applicable.
Ignition temperature: 455 °C
Decomposition temperature: Not determined.
Auto-ignition temperature: Product is not self-igniting.
Explosive properties: Product does not present an explosion hazard.

Explosion limits:

Lower: 13.0 Vol %
Upper: 22.0 Vol %
Vapour pressure at 20 °C: 453 hPa
Density at 20 °C: 1.250 - 1.350 g/cm³
Relative density: Not determined.
Vapour density: Not determined.
Evaporation rate: Not determined.

Solubility in / Miscibility with water: Not miscible or difficult to mix.

Partition coefficient: n-octanol/water: Not determined.

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Viscosity:

Dynamic: Not determined.

Kinematic: Not determined.

Solvent content:

Organic solvents: 100.0 %

VOC (EC): 100.00 %

Other information: No further relevant information available.

10. STABILITY AND REACTIVITY

Reactivity: No further relevant information available.

Chemical stability:

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications and industry good practice.

Possibility of hazardous reactions: No dangerous reactions known.

Conditions to avoid: No further relevant information available.

Incompatible materials: No further relevant information available.

Hazardous decomposition products: Carbon monoxide if incomplete combustion.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects:

Acute toxicity: Harmful if swallowed.

LD/LC50 values relevant for classification:

ATE (Acute Toxicity Estimates):

Oral: LD50 1778 mg/kg (rat)

Inhalative: LC50/4 h 60 mg/l

7 5-09-2 dichloromethane:

REACH Reg No.: 01-2119480404-41-XXXX

Oral: LD50 1600 mg/kg (rat)

Inhalative: LC50/4 h 88 mg/l (rat)

67-56-1 Methanol:

REACH Reg No.: 01-2119433307-44-XXXX

Oral: LD50 5628 mg/kg (rat)

Dermal: LD50 15800 mg/kg (rabbit)

Inhalative: LC50/4 h 3 mg/l (ATE)

Primary irritant effect:

Skin corrosion/irritation: Causes skin irritation.

Serious eye damage/irritation: Causes serious eye irritation.

Respiratory or skin sensitisation: Based on available data, the classification criteria are not met.

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CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction):

Germ cell mutagenicity:	Based on available data, the classification criteria are not met.
Carcinogenicity:	Suspected of causing cancer.
Reproductive toxicity:	Based on available data, the classification criteria are not met.
STOT-single exposure:	May cause damage to organs.
STOT-repeated exposure:	Based on available data, the classification criteria are not met.
Aspiration hazard:	Based on available data, the classification criteria are not met.

12. ECOLOGICAL INFORMATION

Toxicity:

Aquatic toxicity:	No further relevant information available.
Persistence and degradability:	No further relevant information available.
Bioaccumulative potential:	No further relevant information available.
Mobility in soil:	No further relevant information available.

Additional ecological information:

General notes:	Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water. Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground.
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Results of PBT and vPvB assessment:

PBT:	Not applicable.
vPvB:	Not applicable.
Other adverse effects:	No further relevant information available.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods:

Recommendation:	Must not be disposed together with household refuse. Do not allow product to reach sewage system. Refer to the revised Waste Framework Directive (2008/98 EC) and the European Waste Catalogue (EWC). Substance is "hazardous" if it is classified as waste according to annex III of rWFD, subject to thresholds. Refer to "WM3: Hazardous Waste: Interpretation of the definition and classification of hazardous waste", located on Environment Agency website.
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European waste catalogue:

Refer to WM3 Hazardous Waste: Interpretation of the definition and classification of hazardous waste.

Uncleaned packaging:

Recommendation:	Waste Solvent Disposal must be made according to official regulations. Refer to Hazardous Waste Regulations 2005. Requires movement under Consignment note by licensed waste carrier. We may be able provide this service - please contact us for more details. Empty contaminated packaging thoroughly. They may be recycled after thorough and proper cleaning. Please contact us if you wish to return your used packaging (205litre and IBC's only). Containers to be scrapped as waste must be cleaned so that no hazardous substances remain, otherwise uncleaned containers containing residue for scrap will need to be consigned as hazardous waste as per WM3.
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14. TRANSPORT INFORMATION

UN-Number:

ADR, IMDG, IATA: UN2810

UN proper shipping name:

ADR: 2810 TOXIC LIQUID, ORGANIC, N.O.S.

IMDG, IATA: TOXIC LIQUID, ORGANIC, N.O.S.

Transport hazard class(es):

ADR:



Class: 6.1 Toxic substances.

IMDG, IATA:

Class: Void

Packing group:

ADR: III

IMDG, IATA: Void

Environmental hazards: Not applicable.

Special precautions for user Warning: Toxic substances.

EMS Number: F-A, S-A

Transport in bulk according to Annex II of Marpol and the IBC Code: Not applicable.

Transport/Additional information:

ADR:

Limited quantities (LQ): 5L

Excepted quantities (EQ): Code: E1

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 1000 ml

UN "Model Regulation": UN 2810 TOXIC LIQUID, ORGANIC, N.O.S., 6.1, III

15. REGULATORY INFORMATION

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

Directive 2012/18/EU:

Named dangerous substances - ANNEX I: Methanol

REACH Reg No.: 01-2119433307-44-XXXX

REGULATION (EC) No 1907/2006 ANNEX XVII: Conditions of restriction: 3, 59

Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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Note: The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

16. OTHER INFORMATION

Relevant phrases: H225 Highly flammable liquid and vapour.
H301 Toxic if swallowed.
H311 Toxic in contact with skin.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H331 Toxic if inhaled.
H336 May cause drowsiness or dizziness.
H351 Suspected of causing cancer.
H370 Causes damage to organs.

Training hints: Make users aware of the contents of this document and train according to use and risks within your operation.

Department issuing SDS: Product safety department.

Contact: Sales Office in the first instance.

Abbreviations and acronyms: ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
VOC: Volatile Organic Compounds (USA, EU)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Flam. Liq. 2: Flammable liquids – Category 2
Acute Tox. 3: Acute toxicity – Category 3
Acute Tox. 4: Acute toxicity – Category 4
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
Carc. 2: Carcinogenicity – Category 2
STOT SE 1: Specific target organ toxicity (single exposure) – Category 1
STOT SE 2: Specific target organ toxicity (single exposure) – Category 2
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

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Legal disclaimer:

The information contained in this SDS does not constitute a risk assessment, and should not replace the user's own assessment of risks as required by other health and safety legislation. This advice is given by Nexchem Ltd who accept no legal liability for it except otherwise provided by law. The information contained herein is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. It should not therefore be construed as guaranteeing specific properties.