

2K THINNER (Code 7400.10410)

1. Identification of the substance / mixture and of the company / undertaking

- **Product identifier**
- **Trade name:** 2K THINNER
- **Relevant identified uses of the substance or mixture and uses advised against:**
Use: Thinner. For professional use in car refinish.
- **Details of the supplier of the safety data sheet**
- **Manufacturer / Supplier:**
Abcon Industrial Products Ltd
CavMac Hose Building, Cavan Road, Cootehill, Co Cavan
Phone: +353 49 5552340 Fax: +353 49 555 2312 sales@abconireland.com
- **Further information obtainable from:**
sales@abconireland.com
- **Emergency telephone number:**
Phone: +353 49 5552340

2. Hazards identification

- **Classification of the substance or mixture**
- **Classification according to Directive 67/548/EEC**



Xn Harmful
R 20/21 Harmful by inhalation and in contact with skin



Xi Irritant
R 38 Irritating to skin

R 10 Flammable
R 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment

- **Information concerning particular hazards for human and environmental:**
Vapours of product are heavier than air and may accumulate on the ground, in mines, drains or cellars with higher concentration. Heightened risk of fire and danger of explosion at accumulation in lower-lying or closed rooms. Contact with skin and inhalation of aerosols/ vapours of the preparation should be avoided. At long or repeated contact with skin it may cause dermatitis due to the degreasing effect of the solvent. Has a narcotizing effect.
The product has to be labeled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version

- **Label elements**
- **Labelling according to EU guidelines:**
The product has been classified and marked in accordance with EU Directives/ Ordinance on Hazardous Materials
- **Code letter and hazard designation of product:**



Xn Harmful

- **Risk phrases:**
R 10 Flammable.
R 20/21 Harmful by inhalation and in contact with skin.
R 38 Irritating to skin
R 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment
- **Safety phrases:**
S 23 Do not breathe vapour/ spray.
S 24/25 Avoid contact with skin and eyes.
S 36/37 Wear suitable protective clothing and gloves.

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S 51 Use only in well ventilated areas.

S 61 Avoid release to the environment. Refer to special instructions/safety data sheet.

- **Hazard-determining components of labelling:**
reaction mass of ethylbenzene and m-xylene and p-xylene

- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

3. Composition / information on ingredients

- **Chemical characterization:** Mixtures
- **Description:**

Mixture of substance listed below with nonhazardous additions.

Dangerous components:		
CAS: 123-86-4 EINECS: 204-658-1 REG NO: 01-2119485493-29	n-butyl acetate R 10-66-67 Flam. Liq. 3, H226; STOT SE 3, H336	25-50 %
EINECS: 905-562-9 REG NO: 01-2119555267-33	reaction mass of ethylbenzene and m-xylene and p-xylene Xn, Xi; R 10-20/21-38 Flam. Liq. 3, H226; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315	25-50 %
CAS: 108-65-6 EINECS: 203-603-9 REG NO: 01-2119475791-29	2-methoxy-1-methylethyl acetate R 10 Flam. Liq. 3, H226	10-25 %
EINECS: 918-668-5 REG NO: 01-2119455851-35	hydrocarbons, C9, aromatics Xn, Xi, N; R 10-37-51/53-65-66-67 Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; STOT SE 3, H335+H336	2,5-10 %
CAS: 112-07-2 EINECS: 203-933-3 REG NO: 01-2119475112-47	2-butoxyethyl acetate Xn; R 20/21 Acute Tox. 4, H312; Acute Tox. 4, H332	2,5-10 %

- **Additional information:** For the wording of the listed risk phrases refer to section 16.

4. First aid measures

- **Description of first aid measures**

- **General information:**

Personal protection for the First Aider. Take affected persons out of danger area and lay down. Immediately remove any clothing soiled by the product. Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

- **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.

- **After skin contact:**

Immediately wash with water and soap and rinse thoroughly. If skin irritation continues, consult a doctor

- **After eye contact:**

Rinse opened eye for several minutes under running water. Then consult a doctor.

- **After swallowing:**

Do not induce vomiting; call for medical immediately.

- **Most important symptoms and effects, both acute and delayed**

Vapours irritating to mucous membranes of the respiratory system. They cause pains and the giddiness, nausea, vomiting. In case of significant concentrations of vapor or in direct contact with eyes may be mild irritation, redness, tearing, burning, pain. Product ingestion causes abdominal pain, vomiting. May experience disorders of the nervous system, chronic conjunctivitis, and sometimes

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smell disorders, inflammation of upper respiratory tract with pain in the throat, chronic skin inflammation.

- **Indication of any immediate medical attention and special treatment needed**

The workplace should be equipped with a shower and eye wash position.

5. Firefighting measures

- **Extinguishing media**

- **Suitable extinguishing agents:**

CO₂, powder or water spray. Fight larger with water spray or alcohol resistant foam.

- **For safety reasons unsuitable extinguishing agents:** Water with full jet.

- **Special hazards arising from the substance or mixture**

Carbon monoxide and carbon dioxide.

During heating or in case of fire poisonous gases are produced.

Can form explosive gas-air mixtures.

- **Advice for firefighters**

- **Protective equipment:** Wear self-contained respiratory protective devices. Wear full protective suit.

- **Additional information:**

Cool endangered receptacles with water spray.

Remove undamaged containers from the danger zone.

Collect contaminated fire fighting water separately. It must not enter the sewage system.

Dispose of fire debris and contaminated fire fighting water in accordance with official regulation.

6. Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**

- **Person-related safety precautions:**

Wear protective equipment. Keep unprotected person away. Ensure adequate ventilation. Keep away from ignition sources. Use respiratory protective device against the effects of fumes/dust/aerosol. Avoid contact with the eyes and skin.

- **Environmental precautions**

Do not allow to enter sewers/ surface or ground water. Inform respective authorities in case of seepage into water course or sewage system.

- **Methods and material for containment and cleaning up**

Ensure adequate ventilation. Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

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. Do not inhale gases/ fumes/ aerosols. Avoid contact with the eyes and skin. Use respiratory protective device against the effects of fumes/dust/aerosol. Adhere to the workplace limit values and / or other threshold values.

- **Information about fire- and explosion protector:**

Vapours of the product are heavier than air and may accumulate on the ground, in mines, drains or cellars with higher concentration. Fumes can combine with air to form an explosive mixture. Fumes can combine with air to form an explosive mixture. Keep ignition sources away – Do not smoke. Anti-explosion protection required. Protect against electrostatic charges.

- **Conditions for safe storage, including any incompatibilities**

- **Storage:**

- **Requirements to be met by storerooms and receptacles:**

Store only in original receptacle. Adhere to the provisions of the Low on Water Protection.

- **Information about storage in use common storage facility:**

Store away from foodstuffs. Pls. refer to section 10

- **Further information about storage conditions:**

Store in cool, dry conditions in well sealed receptacles. Protect from heat and direct sunlight. Store receptacle in a well ventilated areas. Protect from humidity and water. Keep ignition sources away - Do not smoke.

- **Specific end use(s)**

No further relevant information available.

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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:	
123-86-4 n-butyl acetate	
WEL (Great Britain)	Short-term value: 966 mg/m ³ , 200 ppm Long-term value: 724 mg/m ³ , 150 ppm
1330-20-7 xylene (component of reaction mass of ethylbenzene and m-xylene and p-xylene)	
WEL (Great Britain)	Short-term value: 441 mg/m ³ , 100 ppm Long-term value: 220 mg/m ³ , 50 ppm Sk; BMGV
IOELV (EU)	Short-term value: 442 mg/m ³ , 100 ppm Long-term value: 221 mg/m ³ , 50 ppm Skin
100-41-4 ethylbenzene (component of reaction mass of ethylbenzene and m-xylene and p-xylene)	
WEL (Great Britain)	Short-term value: 552 mg/m ³ , 125 ppm Long-term value: 441 mg/m ³ , 100 ppm Sk
IOELV (EU)	Short-term value: 884 mg/m ³ , 200 ppm Long-term value: 442 mg/m ³ , 100 ppm Skin
108-65-6 2-methoxy-1-methylethyl acetate	
WEL (Great Britain)	Short-term value: 548 mg/m ³ , 100 ppm Long-term value: 274 mg/m ³ , 50 ppm Sk
IOELV (EU)	Short-term value: 550 mg/m ³ , 100 ppm Long-term value: 275 mg/m ³ , 50 ppm Skin
112-07-2 2-butoxyethyl acetate	
WEL (Great Britain)	Short-term value: 332 mg/m ³ , 50 ppm Long-term value: 133 mg/m ³ , 20 ppm Sk
IOELV (EU)	Short-term value: 333 mg/m ³ , 50 ppm Long-term value: 133 mg/m ³ , 20 ppm Skin

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

n-butyl acetate

DNEL - workers, long-term - dermal - 7 mg/kg bm/24h
 DNEL - workers, long-term - inhalation - 48 mg/m³
 PNEC - freshwater environment - 0,18 mg/l
 PNEC - marine environment - 0,018 mg/l
 PNEC - intermittent releases - 0,36 mg/l
 PNEC - sewage treatment plants - 35,6 mg/l
 PNEC - freshwater sediment environment - 0,981 mg/kg
 PNEC - marine sediment environment - 0,0981 mg/l
 PNEC - soil - 0,0903 mg/kg

2-methoxy-1-methylethyl acetate:

DNEL - workers, long-term - inhalation, systemic effects - 275 mg/m³
 DNEL - workers, long-term - dermal, systemic effects - 153,5 mg/kg bm
 PNEC - freshwater environment - 0,635 mg/l
 PNEC - freshwater sediment environment - 3,29 mg/l
 PNEC - marine sediment environment - 0,329 mg/l
 PNEC - soil 0,29 mg/kg
 PNEC - sewage treatment plants - 100 mg/l

Hydrocarbons, C9, aromatics:

DNEL - workers, long-term - dermal, systemic effects - 25 mg/kg

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DNEL - workers, long-term - inhalation, systemic effects - 150 mg/m³

2-butoxyethyl acetate

DNEL - workers, acute - dermal, systemic effects - 102 mg/kg bm/day

DNEL - workers, acute - inhalation, systemic effects - 775 mg/m³

DNEL - workers, acute - inhalation, local effects - 333 mg/m³

DNEL - workers, long-term - inhalation, systemic effects - 133 mg/m³

DNEL - workers, long-term - dermal, systemic effects - 102 mg/kg bm

PNEC - freshwater environment - 0,304 mg/l

PNEC - marine environment - 0,0304 mg/l

PNEC - intermittent releases - 0,56 mg/l

PNEC - sewage treatment plants - 90 mg/l

PNEC - freshwater sediment environment - 2,03 mg/kg

PNEC - marine sediment environment - 0,203 mg/kg

PNEC - soil - 0,68 mg/kg

- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals. Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Do not eat, drink, smoke or sniff while working. Do not inhale gases/fumes/aerosols. Avoid contact with the eyes and skin. Wash hands before breaks and at the end of work.

- **Respiratory protection:**

Adhere to the workplace limit values and / or other threshold values. In case of brief exposure or low pollution use respiratory filter device. Filter A/P2.

- **Protection of hands:**

Preventive skin protection by use of skin-protecting agents is recommended. To avoid skin problems reduce the wearing of gloves to the required minimum. Check the permeability prior to each renewed use of the gloves. The glove material has to be impermeable and resistant to the product / the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation. Wear suitable gloves tested to EN 374.

- **Material of gloves:**

Fluorocarbon rubber, KFM

Butyl rubber, IIR

Nitrile rubber, NBR

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**

Value for the permeation: Level 6 (≥ 480 min).

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

- **Eye protection:** Tightly sealed goggles
- **Body protection:** Protective work clothing.

9. Physical and chemical properties

- **Information on basic physical and chemical properties**

- **Appearance**

Form: Fluid

Color: Colorless

- **Odour** Characteristic

- **Odour threshold** Undetermined

- **pH** Undetermined

- **Melting point/ freezing point** Undetermined

- **Initial boiling point and boiling range** Undetermined

- **Flash point** 45 °C

- **Evaporation rate** Undetermined

- **Flammability** The mixture is flammable

- **Upper/lower flammability or explosive limits** Undetermined

- **Vapour pressure** Undetermined

- **Vapour density** Undetermined

- **Relative density** ~ 0,9

- **Solubility(ies)** Not miscible or difficult to mix in water.

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- **Partition coefficient: n-octanol/water** Undetermined
- **Auto-ignition temperature** Undetermined
- **Decomposition temperature** Undetermined
- **Viscosity** Undetermined
- **Explosive properties** Product is not explosive. However, formation of explosive air/ vapour mixtures is possible
- **Oxidising properties** Product is not oxidising.
- **Other information**
Not available

10. Stability and reactivity

- **Reactivity**
No reactivity if used according to specifications.
- **Chemical stability**
Stable under normal conditions of use and storage.
- **Possibility of hazardous reactions**
Fumes can combine with air to form an explosive mixture. Reacts with oxidizing agents. Reacts with strong acids and alkali.
- **Conditions to avoid**
High temperature, ignition sources, open flame.
- **Incompatible materials**
Oxidizing agents, alcohols, amines, aqueous acids and alkalis.
- **Hazardous decomposition products**
Carbon monoxide and carbon dioxide. During heating or in case of fire poisonous gases are produced. Can form explosive gas-air mixtures.

11. Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

LD/ LC50 values relevant for classification:

reaction mass of ethylbenzene and m-xylene and p-xylene

Oral	LD50	4300 mg/kg (rat)
Dermal	LD50	> 5000 ml/kg (rab)
Inhalative	LD50/4 h	6350 ppm (rat)

- **Primary irritant effect:**
- **On the skin:** Irritant to skin and mucous membranes. Repeated exposure may cause skin dryness or cracking.
- **On the eye:** Irritating effect.
- **Additional toxicological information:**
Vapours may cause drowsiness and dizziness. Has a narcotizing effect. Danger through skin adsorption.

12. Ecological information

- **Toxicity**
Do not allow product to reach ground water, water course or sewage system.
- **Persistence and degradability**
n-butyl acetate - readily biodegradable
reaction mass of ethylbenzene and m-xylene and p-xylene - readily biodegradable
2-methoxy-1-methylethyl acetate - readily biodegradable
hydrocarbons, C9, aromatics - readily biodegradable
2-butoxyethyl acetate - readily biodegradable
- **Bioaccumulative potential**
Octanol-water partition coefficient (Kow)
n-butyl acetate: 2,3
reaction mass of ethylbenzene and m-xylene and p-xylene: 3,12-3,2
2-methoxy-1-methylethyl acetate: 0,43
2-butoxyethyl acetate: 1,51
Bioconcentration factor (BCF)
n-butyl acetate: BCF = 15,3
reaction mass of ethylbenzene and m-xylene and p-xylene: BCF < 100
- **Mobility in soil**
No further relevant information available.

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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 garbage. Do not allow product to reach sewage system. Disposal must be made according to official regulations.

European waste catalogue	
08 01 11*	waste paint and varnish containing organic solvents or other dangerous substances

- **Uncleaned packaging**

- **Recommendation:** Disposal must be made according to official regulations.

14. Transport information

- **UN-Number:** 1263
- **UN proper shipping name:** 1263 PAINT RELATED MATERIAL
- **Transport hazard class(es):** 3
- **Packaging group:** III
- **Hazard label:** 3
- **Environmental hazards:**
- The product does not pose a risk to the environment in accordance with the criteria in the UN Model Regulations.
- **Special precautions for user:**
- Warning: Flammable liquids. Always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of accident or spillage.
- **Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:** Not applicable.

15. Regulatory information

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

- **National regulations:**

- **Information about limitation of use:**

Employment restrictions concerning juveniles must be observed

Employment restrictions concerning pregnant and lactating women must be observed.

- **Chemical safety assessment:**

A Chemical Safety Assessment has been carried out for: n-butyl acetate, reaction mass of ethylbenzene and m-xylene and p-xylene, 2-methoxy-1-methylethyl acetate, hydrocarbons, C9, aromatics, 2-butoxyethyl acetate.

16. Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant R-phrases:**

R 10 Flammable.

R 20/21 Harmful by inhalation and in contact with skin.

R 37 Irritating to respiratory system.

R 38 Irritating to skin.

R 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R 65 Harmful: may cause lung damage if swallowed.

R 66 Repeated exposure may cause skin dryness or cracking.

R 67 Vapours may cause drowsiness and dizziness.

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H 226 Flammable liquid and vapour.
H 304 May be fatal if swallowed and enters airways.
H 312 Harmful in contact with skin.
H 315 Causes skin irritation.
H 332 Harmful if inhaled.
H 335 May cause respiratory irritation.
H 336 May cause drowsiness or dizziness.
H 411 Toxic to aquatic life with long lasting effects.

- **Updated:** General update