

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

Product code : InCarbon
Trades code : A60-005
Product line: Tintolav

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

Solvent washing Strengtheners hydrocarbon

Sectors of use:

Industrial Manufacturing[SU3], Public domain (administration, education, entertainment, services, craftsmen)[SU22]

Uses advised against

Do not use for purposes other than those listed

1.3. Details of the supplier of the safety data sheet

Tintolav s.r.l. - Via M. D'Antona 7 - 10028 Trofarello (TO) Tel. 011/649.68.27 Fax 011/649.67.42

Email: info@tintolav.com - Sito internet: www.tintolav.com

Email tecnico competente: a.conedera@tintolav.com

National contact: Malta: Emergency Ambulance 112

Accident & Emergency Department 2545 4030

1.4. Emergency telephone number

The UK National Poisons Emergency number +44 (0)870 600 6266

London: Emergency 24 hour telephone +44 (0) 207188 0100

SECTION 2. Hazards identification**2.1. Classification of the substance or mixture**

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

Pictograms:

GHS02, GHS07, GHS08, GHS09

Hazard Class and Category Code(s):

Flam. Liq. 3, Asp. Tox. 1, Eye Irrit. 2, Aquatic Acute 1, Aquatic Chronic 4

Hazard statement Code(s):

H226 - Flammable liquid and vapour.

H304 - May be fatal if swallowed and enters airways.

H319 - Causes serious eye irritation.

H400 - Very toxic to aquatic life. (1)

H413 - May cause long lasting harmful effects to aquatic life.

The product is a liquid that ignites at temperatures above 21 °C if it exposed to an ignition source.

The product can be fatal if swallowed and enters airways

If brought into contact with eyes, the product, causes significant irritations which may last for more than 24 hours.

The product is dangerous for the environment as it is very toxic to aquatic organisms

This product is dangerous to the environment as can be harmful to aquatic life with long lasting effects

2.2. Label elements

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



Pictogram, Signal Word Code(s):

GHS02, GHS07, GHS08, GHS09 - Danger

Hazard statement Code(s):

H226 - Flammable liquid and vapour.

H304 - May be fatal if swallowed and enters airways.

H319 - Causes serious eye irritation.

H400 - Very toxic to aquatic life. (1)

H413 - May cause long lasting harmful effects to aquatic life.

Supplemental Hazard statement Code(s):

EUH066 - Repeated exposure may cause skin dryness or cracking.

Precautionary statements:

Prevention

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

P264 - Wash your hand thoroughly after handling.

P273 - Avoid release to the environment.

Response

P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER/doctor/ physician

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P331 - Do NOT induce vomiting.

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

P370+P378 - In case of fire: Use foam or CO2 or chemical powder to extinguish.

Storage

P403+P235 - Store in a well-ventilated place. Keep cool.

Disposal

P501 - Dispose of contents / container in accordance with local and national regulations.

Contains:

Hydrocarbons, C11-C12, isoalkanes, < 2% aromatics

Contains (Reg.EC 648/2004):

> 30% aliphatic hydrocarbons, < 5% perfumes, Composti di ammonio quaternario, benzil-C12-16-alchildimetil, cloruri, non-ionic surfactants, a-Hexylcinnamaldehyde, BUTYLPHENYL METHYLPROPIONAL (LILIAL), Coumarin

2.3. Other hazards

The substance / mixture NOT contains substances PBT/vPvB according to Regulation (EC) No 1907/2006, Annex XIII

No information on other hazards

For professional use only

SECTION 3. Composition/information on ingredients**3.1 Substances**

Irrilevant

3.2 Mixtures

Refer to paragraph 16 for full text of hazard statements

Substance	Concentration	Classification	Index	CAS	EINECS	REACH
Hydrocarbons, C11-C12, isoalkanes, < 2% aromatics	> 75 <= 100%	Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Chronic 4, H413		90622-58-5	918-167-1	01-2119472 146-39
2-(2-butoxyethoxy)ethanol	> 1 <= 5%	Eye Irrit. 2, H319	603-096-00-8	112-34-5	203-961-6	
Fatty alcohol ethoxylate	> 1 <= 5%	Acute Tox. 4, H302; Eye Dam. 1, H318		64425-86-1		02-2119548 515-35-000 0
Coconut diethanolamide	> 1 <= 5%	Skin Irrit. 2, H315; Eye Irrit. 2, H319		68603-42-9	271-657-0	
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides - FEMA 0	> 0,1 <= 1%	Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Corr. 1B, H314; Eye Dam. 1, H318; Aquatic Acute 1, H400 100 100		68424-85-1	270-325-2	

SECTION 4. First aid measures

4.1. Description of first aid measures

Inhalation:

Air the area. Move immediately the contaminated patient from the area and keep him at rest in a well ventilated room.
CALL A PHYSICIAN.

Air the area. Move immediately the contaminated patient from the area and keep him at rest in a well ventilated area.
If you feel unwell seek medical advice.

Direct contact with skin (of the pure product):

Take contaminated clothing Immediately off.
Wash immediately with plenty of running water and possibly with soap, the areas of the body that have, or are only suspected to have, come in contact with the product.
In case of contact with skin, wash immediately with water and soap.

Direct contact with eyes (of the pure product):

Wash immediately and thoroughly with running water, keeping eyelids open for at least 10 minutes, then protect your eyes with a dry sterile gauze. Seek medical advice immediately

Ingestion:

The product is harmful and can cause irreversible damages even following a single exposure if swallowed.
Absolutely do not induce vomiting or emesis. Seek medical advice immediately.

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

No data available.

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

IF SWALLOWED: Immediately call a POISON CENTER/doctor/ physician
If eye irritation persists: Get medical advice/attention.

SECTION 5. Firefighting measures

5.1. Extinguishing media

Advised extinguishing agents:

In the case of fire use: foam or CO₂ or chemical powdre. Don't use water. Avoid to use water

Extinguishing means to avoid:

Water jets. Use water jets only to cool the surfaces of the containers exposed to fire.

5.2. Special hazards arising from the substance or mixture

No data available.

5.3. Advice for firefighters

Use protection for the breathing apparatus

Safety helmet and full protective suit.

The spray water can be used to protect the people involved in the extinction

You may also use selfrespirator, especially when working in confined and poorly ventilated area and if you use halogenated extinguishers (Halon 1211 fluobrene, Solkan 123, NAF, etc...)

Keep containers cool with water spray

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel:

Leave the area surrounding the spill or release. Do not smoke

Wear gloves and protective clothing

6.1.2 For emergency responders:

Wear gloves and protective clothing. Suitable: LaTeX, nitrile, PVC

Eliminate all unguarded flames and possible sources of ignition. No smoking.

Provision of sufficient ventilation.

Evacuate the danger area and, in case, consult an expert.

6.2. Environmental precautions

Contain spill with earth or sand.

If the product has entered a watercourse in sewers or has contaminated soil or vegetation, notify it to the authorities.

Discharge the remains in compliance with the regulations

6.3. Methods and material for containment and cleaning up

6.3.1 For containment:

Rapidly recover the product, wear a mask and protective clothing

Recover the product for reuse, if possible, or for removal. Possibly absorb it with inert material.

Prevent it from entering the sewer system.

6.3.2 For cleaning up:

After wiping up, wash with water the area and materials involved

6.3.3 Other information:

None in particular.

6.4. Reference to other sections

Refer to paragraphs 8 and 13 for more information

SECTION 7. Handling and storage**7.1. Precautions for safe handling**

Avoid contact and inhalation of vapors

Do not smoke at work

At work do not eat or drink.

Wear protective gloves/protective clothing/eye protection/face protection.

See also paragraph 8 below.

7.2. Conditions for safe storage, including any incompatibilities

Keep in original container closed tightly. Do not store in open or unlabeled containers.

Keep containers upright and safe by avoiding the possibility of falls or collisions.

Store in a cool place, away from sources of heat and direct exposure of sunlight.

Always store in well ventilated areas.

Never close the container tightly, leave a chance to vent

Keep away from open flames, sparks and heat sources. Avoid direct sunlight exposure.

7.3. Specific end use(s)

Industrial Manufacturing:

Handle with extreme caution.

Store in a well ventilated place away from heat sources.

Public domain (administration, education, entertainment, services, craftsmen):

Handle with care. Store in a ventilated area and away from heat, keep the container tightly closed.

SECTION 8. Exposure controls/personal protection**8.1. Control parameters**

Related to contained substances:

Hydrocarbons, C11-C12, isoalkanes, < 2% aromatics:

Specification: TLV/TWA (EC)

Value: 1200 mg/m3 ppm/177

2-(2-butoxyethoxy)ethanol:

CVE: TWA 10 ppm 67.5 mg/m3 STEL 15 ppm 101.2 mg/m3

MAK DFG 10 ppm 67 mg/m3

8.2. Exposure controls

Appropriate engineering controls:

Industrial Manufacturing:

No specific monitoring foreseen

Public domain (administration, education, entertainment, services, craftsmen):

No specific monitoring foreseen

Individual protection measures:

(a) Eye / face protection

Not needed for normal use.

(b) Skin protection



- (i) Hand protection
When handling the pure product use chemical resistant protective gloves (EN 374-1/EN374-2/EN374-3)
- (ii) Other
Wear normal work clothing.
- (c) Respiratory protection
Not needed for normal use.
- (d) Thermal hazards
No hazard to report

Environmental exposure controls:

Use according to good working practices to avoid pollution into the environment.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical and chemical properties	Value	Determination method
Appearance	colorless liquid	
Odour	characteristic	
Odour threshold	not determined	
pH	not determined	
Melting point/freezing point	not determined	
Initial boiling point and boiling range	173 °C	
Flash point	> 23 °C	ASTM D92
Evaporation rate	irrelevant	
Flammability (solid, gas)	inflammabili	
Upper/lower flammability or explosive limits	0.5% vol. - 7 % vol.	
Vapour pressure	0.7 hPa	
Vapour density	> 1	
Relative density	0.750 - 0.801 g/cm3	
Solubility	soluble in solvents	
Water solubility	insoluble in water	
Partition coefficient: n-octanol/water	not determined	
Auto-ignition temperature	200 °C	
Decomposition temperature	not determined	
Viscosity	not determined	
Explosive properties	not explosive	
Oxidising properties	non-oxidizing	

9.2. Other information

No data available.

SECTION 10. Stability and reactivity

10.1. Reactivity

No reactivity hazards

10.2. Chemical stability

No hazardous reaction when handled and stored according to provisions.

10.3. Possibility of hazardous reactions

There are no hazardous reactions

10.4. Conditions to avoid

Avoid contact with combustible materials. The product could catch fire. heat, open flames, sparks or hot surfaces.

10.5. Incompatible materials

It can ignite in contact with oxidants mineral acids.

10.6. Hazardous decomposition products

Does not decompose when used for intended uses.

SECTION 11. Toxicological information**11.1. Information on toxicological effects**

ATE(mix) oral = 113.362,7 mg/kg

ATE(mix) dermal = ∞

ATE(mix) inhal = ∞

(a) acute toxicity: based on available data, the classification criteria are not met.

(b) skin corrosion/irritation Hydrocarbons, C11-C12, isoalkanes, < 2% aromatics: can be slightly irritating.

Coconut diethanolamide: Irritating

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides: rabbit Result: Method: DOT Corrosive
Exposure time: 12:0 am

(c) serious eye damage/irritation: If brought into contact with eyes, the product, causes significant irritations which may last for more than 24 hours.

2-(2-butoxyethoxy)ethanol: Eyes-rabbit Result: Mild eye irritation-24h

Coconut diethanolamide: Acute Irritazione\Corrosione eyes

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides: rabbit Result: Caustic Method: DOT

(d) respiratory or skin sensitization: Coconut diethanolamide: Non-sensitizing

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides: Buehler guinea pig Test Classification:
Did not cause sensitization on laboratory animals.

Result: not sensitizing Method: OECD Test Guideline 406

(e) germ cell mutagenicity: 2-(2-butoxyethoxy)ethanol: Mutagenicity-Bacterial,: negative +/-activation

Chromosomal aberration,: negative +/-activation

Mutagenicity-Mammalian,: negative +/-activation

(f) carcinogenicity: Coconut diethanolamide: IARC Group 2B carcinogen-possible carcinogenic to humans

(g) reproductive toxicity: based on available data, the classification criteria are not met.

(h) specific target organ toxicity (STOT) single exposure: based on available data, the classification criteria are not met.

(i) specific target organ toxicity (STOT) repeated exposure based on available data, the classification criteria are not met.

(j) aspiration hazard: The product can be fatal if swallowed and enters airways

Related to contained substances:

Hydrocarbons, C11-C12, isoalkanes, < 2% aromatics:

Specification: LC50 oral route of Administration:

Test species: rat

Value: > 5000 mg/m³

For. test: 8:00

Test method: OECD 403

Specification: LD50 Inhalation route of Administration:

Test species: rat

Value: > 5000 mg/kg

Test method: OECD guideline 401

Specification: LD50 Dermal route of Administration:

Test species: rabbit

Value: > 5000 mg/kg

Test method: OECD 402

LD50 (rat) Oral (mg/kg body weight) = 5000

LD50 Dermal (rat or rabbit) (mg/kg body weight) = 5000

CL50 Inhalation (rat) vapour/dust/mist/fume (mg/l/4h) or gas (ppmV/4h) = 4951

2-(2-butoxyethoxy)ethanol:

INHALATION RISK: A harmful contamination of air has been reached slowly for evaporation of this substance at 20 °C;

However, for spraying or scattering, much more quickly.

Effects of short-term exposure: the substance is irritating to eyes the effects of REPEATED EXPOSURE or long term: the liquid degreasing the skin features.

ACUTE HAZARDS/symptoms dry SKIN.

EYE Redness. Pain.

LD50 (rat) Oral (mg/kg body weight) = 1720

LD50 Dermal (rat or rabbit) (mg/kg body weight) = 2700

CL50 Inhalation (rat) vapour/dust/mist/fume (mg/l/4h) or gas (ppmV/4h) = 374

Fatty alcohol ethoxylate:

LD50 (rat) Oral (mg/kg body weight) = 3100

Coconut diethanolamide:

Ingestion: oral rat LD50: > 2,000 mg/kg

Eye contact: irritating to the eye (rabbit). Can cause irreversible damage to the eye.

Skin contact: moderately irritating for a single application (4 h-rabbit)

Readily biodegradable in accordance with the criteria of Directive 67/548 and subsequent modifications.

LD50 (rat) Oral (mg/kg body weight) = 5000

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides:

LD50 (rat) Oral (mg/kg body weight) = 344

LD50 Dermal (rat or rabbit) (mg/kg body weight) = 3340

CL50 Inhalation (rat) vapour/dust/mist/fume (mg/l/4h) or gas (ppmV/4h) = 5

SECTION 12. Ecological information

12.1. Toxicity

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides:

Related to contained substances:

Hydrocarbons, C11-C12, isoalkanes, < 2% aromatics:

Specification: NOEC Parametrix: Daphnia

Daphnia magna

Value = 0.01 mg/l
For. test: 21 days
Specification: EL50
Parametro: Daphnia
Daphnia magna
Value > 1000 mg/l
For. test: 48 h
Test method: Read across
Specification: EL50 Parametro: Alga
Pseudokirchneriella subcapitata
Value > 1000 mg/l
For. test: 72 h
Test method: Read across
Specification: EL50 Parametro: Fish
Oncorhynchus mykiss
Value > 1000 mg/l
For. test: 96 h
Test method: Read across
C(E)L50 (mg/l) = 1000

2-(2-butoxyethoxy)ethanol:

Toxic to fish Lc50-lepomis macrochirus-1,300 mg/l-96 h CL0-Leuciscus idus (dare or Golden)-> 1,000 mg/l-48 h Toxic to daphnia and other aquatic invertebrates: Ec50 Daphnia magna (water Flea grande)-2850 mg/l-48 h for Toxic Algae Desmodium subspicatus Cl50-(green)-100 mg/l >-12:0 am Toxic to bacteria Lc50-Acinetobacter-1,170 mg/l-4:0 pm
C(E)L50 (mg/l) = 1300

Fatty alcohol ethoxylate:

Ittiotossicit:
LC50 (96 h) 1-10 mg/l, Brachydanio rerio
Aquatic invertebrates:
EC50 (48 h) 1-10 mg/l Daphnia magna
Aquatic plants:
EC50 (72 h) 1-10 mg/l Scenedesmus subspicatus
Microorganisms/effects on activated sludge:
CE10 > 1,000 mg/l, activated sludge (DEV-L2)
Chronic toxic to aquatic invertebrates:
NOEC (21 d), 0.33 mg/l Daphnia magna
C(E)L50 (mg/l) = 1

Coconut diethanolamide:

Acute/prolonged toxicity to fish: (83d) 2.52 mg/l (brachydanio rerio)
Acute toxicity to Aquatic Invertebrates: EC50 (12:0 am) 2.8 mg/l (daphnia Magna)
Primary: Biodegradabilit > 90% (OECD)
Easy Biodegradabilit: 60% > (manometric Tests, O2 consumption)
Theoretical O2 demand (thod) 2.52 mg O2/mg.
Chemical O2 demand (COD): 2.51 mg O2/mg.
C(E)L50 (mg/l) = 2,39

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides:

C(E)L50 (mg/l) = 0,01 100
100

The product can cause long-term adverse effects in the aquatic environment, being hardly degradable and / or bioaccumulative

Use according to good working practices to avoid pollution into the environment.

12.2. Persistence and degradability

Related to contained substances:

Hydrocarbons, C11-C12, isoalkanes, < 2% aromatics:

Specification: Biodegradability

31.3% value

For. test: 28 d

Test method: Read across.

Readily biodegradable.

2-(2-butoxyethoxy)ethanol:

The substance miscible in water and would leach into the groundwater, be lost in groundwater and be biologically degraded.

85% (28 d, Ready Biodegradability: Modified MITI Test (s)) readily biodegradable

Fatty alcohol ethoxylate:

Disposal considerations:

> = 90% the bismuth active substance (OECD guideline 303A)

60% > CO₂ formation of theoretical value (28 d) (OECD 301B; ISO 9439; 92/69/EEC, c. 4-C)

Readily biodegradable (according to OECD criteria).

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides:

Biodegradability:

OECD Confirmatory > 90% Test Method: OECD 303 A Modified SCAS Test Exposure time: 99% 7 d > Method: OECD Test 302 Evolution CO₂ Concentration: 5 mg/litre Exposure time: 28 d Result: Readily biodegradable.

95.5% Method: OECD 301 B

12.3. Bioaccumulative potential

Related to contained substances:

2-(2-butoxyethoxy)ethanol:

The substance is not expected to bioaccumulate.

12.4. Mobility in soil

Related to contained substances:

2-(2-butoxyethoxy)ethanol:

The high idrosolubilit and low octanol/water partition coefficient indicates that adsorption to suspended solids and sediments are not significant

12.5. Results of PBT and vPvB assessment

The substance / mixture NOT contains substances PBT/vPvB according to Regulation (EC) No 1907/2006, Annex XIII

12.6. Other adverse effects

No adverse effects

SECTION 13. Disposal considerations

13.1. Waste treatment methods

Do not reuse empty containers. Dispose of them in accordance with the regulations in force. Any remaining product should be disposed of according to applicable regulations by addressing to authorized companies.

Recover if possible. Send to authorized discharge plants or for incineration under controlled conditions. Operate according to local and National rules in force

SECTION 14. Transport information**14.1. UN number**

ADR/RID/IMDG/ICAO-IATA: 3295

ADR exemption because compliance with the following characteristics:

Combination packagings: per inner packaging 5 L per package 30 Kg

Inner packagings placed in shrink-wrapped or stretch-wrapped trays: per inner packaging 5 L per package 20 Kg

**14.2. UN proper shipping name**

ADR/RID/IMDG: HYDROCARBONS, LIQUID, N.O.S. (Hydrocarbons, C11-C12, isoalkanes, < 2% aromatics, Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides, ethanol)

ICAO-IATA: HYDROCARBONS, LIQUID, N.O.S. (Hydrocarbons, C11-C12, isoalkanes, < 2% aromatics, Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides, ethanol)

14.3. Transport hazard class(es)

ADR/RID/IMDG/ICAO-IATA: Class : 3

ADR/RID/IMDG/ICAO-IATA: Label : Onu

ADR: Tunnel restriction code : D/E

ADR/RID/IMDG/ICAO-IATA: Limited quantities : 5 L

IMDG - EmS : F-E, S-D

14.4. Packing group

ADR/RID/IMDG/ICAO-IATA: III

14.5. Environmental hazards

ADR/RID/ICAO-IATA: Product is environmentally hazardous

IMDG: Marine polluting agent : Yes

14.6. Special precautions for user

No data available.

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

It is not intended to carry bulk

SECTION 15. Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

Related to contained substances:

2-(2-butoxyethoxy)ethanol:

Restrictions relating to the product or to substances contained in annex XVII to Regulation (EC) 1907/2006.

3 product section.

Substances.

Point. 55 BUTYL DIGLYCOL

Seveso category:

P5a - FLAMMABLE LIQUIDS

E1 - ENVIRONMENTAL HAZARDS

15.2. Chemical safety assessment

The supplier has made an assessment of chemical safety

SECTION 16. Other information

16.1. Other information

Points modified compared to previous release: 2.2. Label elements, 2.3. Other hazards, 4.3. Indication of any immediate medical attention and special treatment needed, 5.1. Extinguishing media, 6.1. Personal precautions, protective equipment and emergency procedures, 7.1. Precautions for safe handling, 8.1. Control parameters, 8.2. Exposure controls, 11.1. Information on toxicological effects, 12.1. Toxicity, 12.2. Persistence and degradability, 14.1. UN number, 14.2. UN proper shipping name, 14.3. Transport hazard class(es), 14.4. Packing group, 14.5. Environmental hazards, 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Description of the hazard statements exposed to point 3

H226 = Flammable liquid and vapour.

H304 = May be fatal if swallowed and enters airways.

H413 = May cause long lasting harmful effects to aquatic life.

H319 = Causes serious eye irritation.

H302 = Harmful if swallowed.

H318 = Causes serious eye damage.

H315 = Causes skin irritation.

H312 = Harmful in contact with skin.

H314 = Causes severe skin burns and eye damage.

H400 = Very toxic to aquatic life.

Classification based on data of all mixture components

Main normative references:

Directive 1999/45/EC

Directive 2001/60/EC

Regulation 1272/2008/EC

Regulation 2010/453/EC

** The information contained herein is based on our knowledge at the date above.

Related solely to the product and do not constitute a guarantee of a particular quality.

It is the duty of the user to ensure that these are appropriate and complete information regarding the specific use intended.

This data sheet cancels and replaces any previous edition.