

SAFETY DATA SHEET CarbonCount

Version 6.8 Revision Date April 2023 Produced in accordance with REACH Regulations No. 1907/2006, as amended, and GB REACH UK SI 2019/758 as amended

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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name : CarbonCount

Product number : CC/10 Brand : Hidex

REACH NO. : A registration number is not available for this mixture. All the substances used within the mixture are

either; Pre-REACH registered, fully REACH Registered, exempt from registration or the annual

tonnage does not require registration.

Unique Formula Identifier Code: RD10-J0J6-C006-ENK3

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

Sector of Use: SU24 Scientific Research and Development ONLY. Not for consumer use.

Application of the substance / the mixture: Liquid Scintillation Cocktail.

1.3 Details of the supplier of the safety data sheet

Supplier : Hidex Chemicals Oy

Address : Lemminkäisenkatu 62, FIN-20520, Turku, Finland

Telephone : +358 10 843 5570
Website : www.hidex.com
E-mail address : chemicals@hidex.com

1.4 Emergency telephone numbers

Call your local poison centre quoting the Unique Formula Identifier Code given in section 1.1.

Poison Centres

Country	Language	European Poison Centre	Phone	Website		
Belgium	French	Centre Antipoisons	070 245 245 (free, 24/7)	https://www.centreantipoisons.be		
	Dutch	Antigif centrum	070 245 245 (free, 24/7)	http://www.antigifcentrum.be		
Finland	Finnish Swedish English	Helsinki University Hospital– Poison Information Centre	0800 147 111 (free, 24/7) 09 471 977 (charged)	https://www.hus.fi/en/potilaalle/sairaalat-ja- toimipisteet/myrkytystietokeskus		
France	French English	Service national d'assistance reglementaire REACH	+ 33 (0) 1 45 42 59 59 (free, 24/7) This number takes you through to local poison centre numbers for the different regions	https://reach-info.ineris.fr/Numero_orfila		
Germany	German	Local Poison Centres:	-			
	English	Berlin	+49 (0) 30 19240	https://qiftnotruf.charite.de		
		Bonn	+49 (0) 228 19240	http://www.gizbonn.de		
		Erfurt	+49 (0) 361 730730	https://www.gqiz-erfurt.de/home.html		
		Freiburg	+49 (0) 761 19240	https://www.uniklinik-freiburg.de/giftberatung.html		
		Gottingen	+49 (0) 551 19240	https://www.giz-nord.de/cms/index.php		
		Homburg/Saer	+49 (0) 6841 19240	http://www.uniklinikum-saarland.de/de/einrichtungen/kliniken_institute/		
		Mainz	+49 (0) 6131 19240	http://www.giftinfo.uni-mainz.de		
		Munchen	+49 (0) 89 19240	http://www.toxinfo.med.tum.de		
Hungary	Hungarian	Health toxicology information service	+36 80 201 199 (free 24/7 - only from Hungary) +36 1 476 6464 (24/7, can be called for a normal fee from abroad)	https://www.nnk.gov.hu/index.php/kemiai-biztonsagi-es- kompetens-hatosagi-fo/egeszsegugyi-toxikologiai-tajekoztato- szolgalat		
Italy	Italian	Centro Antivelni firenze	+39 055 794 7819 (24/7)	Presentazione (antiveleni.altervista.org)		



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Country	Language	European Poison Centre	Phone	Website	
Ireland	English	Poisons information Centre of Ireland	+353 1 809 21 66 (8am- 10pm / 7 days a week) +353 1 809 25 66 (24/7, healthcare profession only)	https://www.poisons.ie/	
Lithuania	Lithuanian English	Poison Information Bureau part of The State Medicines Control Agency	+370 8-5 236 20 52 (free, 24/7)	http://www.apsinuodijau.lt/pirma-pagalba/	
Netherlands	French English Dutch	National Poisons Information Center / University Medical Center Utrecht	+31 88 75 585 61	https://www.umcutrecht.nl/nl	
Poland	Polish	National Poison Inform	ation Centres:		
		Krakow	+48 12 411 99 99	http://www.oit.cm.uj.edu.pl	
		Gdansk	+48 58 682 04 04	http://www.pctox.pl/new/	
		Poznań	+48 61 847 69 46	N/A	
		Warszawa	+48 607 218 174	N/A	
Romania	Romanian	National Institute for Pu	blic Health, Ministry of Health		
		CNMRMC	+40 213 183 606	N/A	
		Spitalul Clinic de Urgenta Bucuresti	+40 215 992 300 int. 291	N/A	
		Spitalul Clinic Judetean de Urgenta Targu Mures	+40 265.212.111	N/A	
Slovakia	Slovak	National Toxicological Information Centre	+421 2 5477 4166	http://www.ntic.sk/ntic_en.php	
Spain	Spanish	National Emergency Telephone Number of Spanish Poison Centre	+34 91 562 04 20	https://www.miteco.gob.es/es/calidad-y-evaluacion-ambiental/temas/productos-quimicos/portal-reach-clp/novedades/detalle_novedades.aspx?id=tcm:30-193752-16	
Sweden	Swedish English	Swedish Poison Information Centre	112 (24/7) Emergency 010-456 6700 Less urgent	In English - Giftinformationscentralen	
UK	English	National Poisons Information Service NHS	+44 (0) 344 892 0111 - Healthcare Professionals ONLY 111 – General public	https://www.npis.org/Industrynotify.html https://www.nhs.uk/nhs-services/	

SECTION 2: Hazards Identification

2.1 Classification of the substance or mixture Classification according to CLP Regulation (EC) No 1272/2008

Flammable liquid	Category 3	H226
Skin Irritation	Category 2	H315
Eye irritation	Category 2	H319
Acute Toxicity – Inhalation	Category 4	H332
Specific Target Organ Toxicity (STOT) Single Exposure –Respiratory System	Category 3	H335
Aquatic chronic toxicity	Category 2	H411
For the full text of the H-Statements mentioned here - see section 16		

2.2 Label elements

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

Hazard pictograms



GHS02





Signal word Warning Cont...



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Contains: 1,2,4-Trimethylbenzene and 1-Methoxy-2-propanol

Hazard statements

H226 Flammable liquid and vapour H315 Causes skin irritation

H319 Causes serious eye irritation

H332 Harmful if inhaled

H335 May cause respiratory irritation

H411 Toxic to aquatic life with long lasting effects

Precautionary statements

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

smoking.

P273 Avoid release to the environment.

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

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin

with water/shower.

P304+ P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if

present and easy to do - continue rinsing.

2.3 Other hazards

Results of PBT and vPvB assessment:

This product does not contain any substances that meet the criteria for PBT or vPvB.

Endocrine disrupting properties:

This product does not contain any substances that have endocrine disrupting properties.

SECTION 3: Composition / Information on Ingredients

3.1 Chemical characterisation: Mixtures

Description: Mixture of substances listed below with non-hazardous additions.

Hazardous components:

1,2,4 -Trimethylbenzene					
CAS #: 95-63-6 EC #: 202-436-9 REACH: 01-21194-72135-42-XXXX	Flammable liquid category 3 Skin irritation category 2 Eye irritation category 2 Acute toxicity 4 Specific Target Organ Toxicity - Single Exposure Chronic aquatic 2	H226 H315 H319 H332 H335 H411	60- 90%	ATE: M Factor: SCL:	N/A N/A N/A
1-Methoxy-2-propanol					
CAS #: 107-98-2 EC#: 203-539-1 REACH: 01-21194-57435-35-XXXX	Flammable liquid category 3 Specific Target Organ Toxicity - Single Exposure	H226 H336	10- 20%	ATE: M Factor: SCL:	N/A N/A N/A

For the full text of the H-Statements mentioned here - see section 16

SECTION 4: First Aid Measures

4.1 Description of first aid measures

General information: Consult a DOCTOR. Show this safety data sheet to the doctor in attendance.

If inhaled: Move person into fresh air. **In case of contact with skin contact:** Wash off with plenty of water.



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In case of eye contact: Rinse thoroughly with plenty of water for at least 15 minutes and consult a

DOCTOR. Protect unharmed eye.

If swallowed: Do NOT induce vomiting. Never give anything by mouth to an unconscious

person. Rinse mouth with water. Call for a doctor immediately.

4.2 Most important symptoms and effects, both acute and delayed: No further information available.

4.3 Indication of any immediate medical attention / special treatment needed: No further information available.

SECTION 5: Fire Fighting Measures

5.1 Extinguishing media

Suitable extinguishing agents: Carbon Dioxide, dry powder or water spray.

Fight larger fires with water spray or alcohol resistant foam.

5.2 Special hazards arising from the substance or mixture: No further relevant information available.

5.3 Advice for fire-fighters

Special Protective equipment: Wear self-contained respiratory protective device & a fully protective suit.

Further Information: Cool closed containers exposed to fire with water spray. Contaminated water

must not be discharged into drains.

SECTION 6: Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions: Use personal protective equipment. Keep unprotected persons away.

Special precautions: Not applicable.

6.2 Environmental precautions: Inform respective authorities in case of seepage into water course.

Do not allow to enter surface or ground water.

Dilute with plenty of water.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up: Absorb with liquid binding material (sand, diatomite, acid binders, universal

binders, sawdust).

Ensure adequate ventilation.

Pick up mechanically

Dispose of according to local regulations (see section 13).

6.4 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.

SECTION 7: Handling and Storage

7.1 Precautions for safe handling

Advice on safe handling:Wear personal protective equipment.
Avoid contact with skin and eyes.

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

Information about fire and explosion protection: Keep away from sources of ignition.

Do not smoke.

7.2 Conditions for safe storage, including any incompatibilities

Requirements to be met by storerooms and receptacles: No special requirements.

Information about storage in one common storage facility: Not required.

Further information about storage conditions: Keep container tightly sealed.

Protect from exposure to direct sunlight.



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7.3 Specific end use(s):

Advised temperature of use: 10-25°C. Uses identified and documented.

SECTION 8: Exposure Controls / Personal Protection

8.1 Control parameters

Components with workplace control parameters:

Will Workplace Go	,	Country	Limit values				
Substance	CAS number		Eight hours		Short-term		
			ppm	mg/m³	ppm	mg/m³	
1,2,4 -Trimethylbenzene	95-63-6	United Kingdom	25	125			
		European Union	20	100			
		France	20	100			
		Germany	20	100	40	200	
		Netherlands		100		200	
		Slovakia					
		Finland					
		Poland		100		170	
		Hungary		100			
		Belgium	20	100			
		Spain	20	100			
		Romania	20	100			
		Lithuania					
1-methoxy-2-propanol (propylene glycol monomethyl ether)	107-98-2	United Kingdom	100	375	150	560	
		European Union	100	375	150	568	
		Belgium	50	184	100	369	
		Finland	100	370	150	560	
		France	50	188	100	375	
		Germany	100	370	200	740	
		Hungary		375		568	
		Poland		180		360	
		Romania	100	375	150	568	
		Spain	100	375	150	568	
		The Netherlands		375		563	

Cont...

8.2 Exposure controls

General protective and hygienic measures: Handle in accordance with good industrial hygiene and safety practice. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin. Do not eat, drink, smoke or sniff while working. Wear suitable gloves, body and eye protection and a face shield.

Personal Protective Equipment: Respiratory protection: Skin protection:

No personal respiratory protective equipment normally required. Handle with protective gloves. The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. Selection of the



Eye / face protection:

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glove material on consideration of the penetration times, rates of diffusion

and the degradation.

Splash contact Material: Nitrile-rubber. Minimum layer thickness: 0.4 mm. Break through

time: 30 min. If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario

Tightly fitting safety goggles. Faceshield (8-inch minimum). Use

equipment for eye protection tested and approved under appropriate government standards such as NIOSH(US) or EN 166(EU).

Body protection: Protective work clothing – complete suit protecting against chemicals.

The type of protective clothing must be selected according to the concentration and amount of the dangerous substance at the workplace.

Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product

enter drains.

SECTION 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Physical state:
Colour:
Colourless
Odour:
Characteristic
Odour threshold:
PH-value:
Not determined
Melting point/Melting range:
Not determined

Boiling point/Boiling range: 168°C **Flash point:** 36°C

Flammability (solid, gaseous):
Ignition temperature:

Not applicable
Not determined
Not determined

Self-igniting: Product is not self-igniting **Danger of explosion:** Product is not explosive.

Density at 20 °C: 0.9 gm/cm³ Not determined Relative density Not determined Vapour density **Evaporation rate** Not determined Particle size Not applicable Partition coefficient (n-octanol/water): Not determined **Viscosity Dynamic:** Not determined Kinematic: Not determined

9.2 Other information

Information with regard to physical hazard class:
Other Safety Characteristics:
No additional information
No additional information

SECTION 10: Stability and Reactivity

10.1 Reactivity:No data available

10.2 Chemical stability Stable under recommended storage conditions.

No decomposition if used according to specifications.

10.3 Possibility of hazardous reactions: Reacts with strong oxidising agents.

10.4 Conditions to avoidToxic fumes may be released if heated above decomposition point.

10.5 Incompatible materials: No further relevant information available.

10.6 Hazardous decomposition products: Carbon monoxide and carbon dioxide.



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SECTION 11: Toxicological Information

11.1 Information on toxicological effects

Component	CAS - No	LD50 / 48 hours		
1,2,4 - Trimethylbenzene	95-63-6	ORAL 10,2 mg/kg (rat)		
1-Methoxy-2-propanol	107-98-2	LD50 rat (11,700 mg/kg) oral		
		LD50 rat (> 7,000 ppm) inhalation		
		LD50 rat (> 2,000 mg/kg) dermal		

Skin corrosion / irritation:Causes skin irritation.Serious eye damage / eye irritation:Causes serious eye damage.Respiratory sensitisation:May cause respiratory irritation.

Germ cell mutagenicity:Based on available data, classification criteria not met.
Carcinogenicity:
Based on available data, classification criteria not met.

Reproductive toxicity: Based on available data, suspected of damaging unborn child.

Specific Target Organ Toxicity – Single Exposure: Respiratory irritation.

Specific Target Organ Toxicity - Repeated Exposure: Based on available data, classification criteria not met.

Aspiration hazard: May be fatal if swallowed and enters airways.

Additional information: The toxicological properties have not been fully investigated.

SECTION 12: Ecological Information

Component	CAS - No	LC50 / 96 hours
1,2,4 - Trimethylbenzene	95-63-6	Pimephales promelas (fathead minnoe) 7.72 mg/l
1-Methoxy-2-propanol	107-98-2	Golden orfe < 10,000 mg/L

12.2 Persistence and degradability: No further relevant information available.

12.3 Bio accumulative potential: No further relevant information available.

12.4 Mobility in soil:No further relevant information available.

12.5 Results of PBT and vPvB Assessment: No further relevant information available.

12.6 Endocrine disrupting properties: This product does not contain any substances that have endocrine

disrupting properties.

Additional ecological information:

General notes: Toxic to aquatic life with long lasting effects.

Discharge into the environment must be avoided.

SECTION 13: Disposal Considerations

13.1 Waste treatment methods

Uncleaned Packaging:

Product: Waste product must be disposed of according to local authority

recommendations, e.g., convey to a suitable incinerator. Disposal must be made according to official regulations.

Uncleaned packaging may be classifiable as hazardous waste.

SECTION 14: Transport Information

14.1 UN-Number
ADR, IMDG, IATA UN1993

14.2 UN proper shipping name - ADR 1993 FLAMMABLE LIQUID, N.O.S. (1,2,4-trimethylbenzene),

ENVIRONMENTALLY HAZARDOUS

IMDG FLAMMABLE LIQUID, N.O.S. (1,2,4-trimethylbenzene) MARINE

POLLUTANT

IATA FLAMMABLE LIQUID, N.O.S. (1,2,4-trimethylbenzene)

14.3 Transport hazard class(es)



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ADR, IMDG, IATA

Class 3 Flammable liquids

Label

14.4 Packing group -

ADR, IMDG, IATA Ш

14.5 Environmental hazards: Product contains environmentally hazardous substance:

1,2,4-trimethylbenzene

Marine pollutant:

Special marking (ADR): Symbol (fish and tree)

14.6 Special precautions for user Warning: Flammable liquids.

Danger code (Kemler): **EMS Number:** F-E.S-E

14.7 Maritime transport in bulk according to IMO instruments

Limited quantities (LQ) **Excepted quantities (EQ)** Code: E1

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 1000 ml

Transport category Tunnel restriction code D/E

IMDG

Limited quantities (LQ) 5L E1 Excepted quantities (EQ) Code:

> Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml

UN1993, FLAMMABLE LIQUID, N.O.S. (1,2,4-trimethylbenzene), **UN "Model Regulation":**

ENVIRONMENTALLY HAZARDOUS, 3, III

SECTION 15: Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture No further information available.

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

SECTION 16: Other Information

Hazard statements

H226 Flammable liquid and vapour

H315 Causes skin irritation

H319 Causes serious eve irritation

H332 Harmful if inhaled

May cause respiratory irritation H335 May cause drowsiness or dizziness H336

H411 Toxic to aquatic life with long lasting effects

Precautionary statements

P210 Keep away from heat/sparks/open flames/hot surfaces - No smoking

P261 Avoid breathing vapours

P273 Avoid release to the environment

Wear protective gloves/protective clothing/eye protection/face protection. P280 P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing.

Rinse skin with water/shower.

P304+ P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 IF IN EYES: Rinse continuously with water for several minutes. Remove contact

lenses if present and easy to do - continue rinsing.



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This 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.

Last updated April 2023

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) REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals

NIOSH: National Institute of Occupational Safety and Health LL50: Loading rate of test substance resulting in 50% mortality)

LD50: Lethal dose, 50 percent

LC50: Lethal Concentration, 50 percent

ATE: Acute Toxicity Estimate

M Factor: Multiplying factor for substances that are highly toxic to aquatic environment

SCL: Specific Concentration Limit: a concentration limit that is specific to a substance and takes precedence over generic

concentration limit or cut-off