

Date of first version: 2022-09-27

Date of print: 2025-02-16

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

1.1	Product identifier			
	Product name	2-Methylfuran - HP		
	Chemical name	2-Methylfuran - HP		
	Synonyms	none		
	Formula	C ₅ H ₆ O		
	Molecular mass	82,10 g/mol		
	CAS-N°.	534-22-5		
	EC-N°.	208-594-5		
	Registration number	01-2120773938-33-0001		

1.2 Relevant identified uses of the substance or mixture and uses advised against Relevant identified uses of the substance or mixture Industrial use: transported isolated intermediate Use advised against No uses advised against known

 1.3 Details of the supplier of the safety data sheet

 Supplier
 International Furan Chemicals B.V.

 Address
 Rotterdam Airportplein 33, 3045 AP Rotterdam, The Netherlands

 Telephone number
 +31 10 238 05 55

 E-mail address
 sales@furan.com

1.4 Emergency telephone numbers +32(0)14 58 45 45 (24 h/24 h) Information centre on dangerous goods (BIG) (NL, FR, GB, DE) Technische Schoolstraat 43 A, B-2440 Geel, Belgium

SECTION 2: Hazard identification

2.1 Classification of the substance or mixture According to Regulation (EC) No.1272/2008 (EU-GHS/CLP) Hazard Class(es) / Hazard Class and Category Code(s) Flammable liquid

Acute toxicity Acute toxicity

Skin irritation Eye irritation Specific target organ toxicity

2.2 Label elements According to Regulation (EC) No.1272/2008 (EU-GHS/CLP) Hazard pictogram(s)



Signal word	Danger
Hazard statement(s)	
H225	Highly flammable liquid and vapour
H301	Toxic if swallowed
H331	Toxic if inhaled
H312	Harmful in contact with skin
H315	Causes skin irritation
H319	Causes serious eye irritation

Flam. Liquid. 2, H225 Acute Tox. 4 (dermal) H312 Acute Tox. 3 (inhalation, oral) H301, H331 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT RE 2, H373



ate of first version: 2022-09-27		Date of print: 2025-02-16
H373	May cause damage to organs through prolonged or repeated	exposure
Precautionary stateme	nts	
P210	Keep away from heat, hot surfaces, sparks, open flames and smoking.	other ignition sources. No
P260	Do not breathe dust/fume/gas/mist/vapours/spray.	
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor	or
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortab	le for breathing.
P311	Call a POISON CENTER/physician.	2
P403+P233	Store in a well ventilated place. Keep container tightly closed.	

2.3 Other hazards

Dat

- PBT and/or vPvB: no

- Endocrine disruptor properties: not identified to have endocrine disrupting properties according to Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 nor is included in the Candidate List of substances of very high concern according to EU REACH Article 59 for having endocrine disrupting properties.

SECTION 3: Composition/information on ingredients

3.1 Substances

Main constituent	Identity		Percentage
2-Methylfuran	CAS-N°.	534-22-5	>99 %
	EC N°.	208-594-5	

SECTION 4: First aid measures

4.1 Description of first aid measures

Inhalation	Remove victim into fresh air. Unconscious: maintain adequate airway and respiration.
	Consult a doctor/medical service if breathing problems develop.
Skin contact	Rinse with water. Soap may be used. Remove contaminated clothes before washing.
	Consult a doctor/medical service if irritation persists.
Eye contact	First rinse with plenty of water (remove lenses if possible).
	If eye irritation persists: Get medical advice / attention.
	Do not apply neutralizing agents.
Ingestion	Never give water to an unconscious person. Do not induce vomiting. Consult a
-	doctor/medical service if you feel unwell.

4.2 Most important symptoms and effects, both acute and delayed

Acute Symptoms and effects

After inhalation: After exposure to high concentration: Headache, dizziness, suffocation, respiratory tract irritation. After ingestion: risk of aspiration pneumonia, nausea, vomiting, digestive tract irritation After skin contact: dry skin After eye contact: redness of the eye tissue. Slight irritation.

Delayed symptoms and effects

No information available.

4.3 Indication of any immediate medical attention and special treatment needed Not applicable.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Alcohol-resistant foam, BC powder, carbon dioxide.

Unsuitable extinguishing media



Date of	first version: 2022-09-27		Date of print: 2025-02-1
		Water may be ineffective. Water may spread fire Solid water jet ineffective as extinguishing medium	
5.2	Special hazards arising Hazardous combustion pro	from the substance or mixture	
		Gas/vapour spreads at floor level: ignition hazard.	
		Gas/vapour flammable with air within explosion limits	
		Upon combustion CO and CO ₂ are formed.	
	Additional Hazards		
		Not applicable.	
5.3	Advice for firefighters		
	Protective Actions		
		Cool tanks/drums with water spray/remove them into safety.	
		Dilute toxic gases with water spray.	
		Do not move the load if exposed to heat.	
	Special Protective Equipm		
		Heat/fire exposure: compressed air/oxygen apparatus	
		Large spill/in enclosed spaces: compressed air apparatus.	
SEC	CTION 6: Accidental re	elease measures	
6.1	Personal precautions in	rotective equipment and emergency procedures	
0.1		High gas/vapour concentration: compressed air/oxygen apparatus	
		Gas mask with filter type AX.	
		Gloves (Natural Rubber, Viton)	
		Protective goggles	
		Head/skin protection	
		Heatproof clothing (Butyl Rubber, Viton)	
6.2	Environmental precaution	ans	
0.2		Prevent spreading in sewers	
		Contain released substance, pump over in suitable containers	
		Plug the lead, cut off the supply	
		Dam up the spill liquid	
		Try to reduce evaporation.	
6.3	Methods and material fo	or containment and cleaning up	
0.0	Advice on spillage contain		
		Damaged/cooled tanks must be emptied.	

Do not use compressed air for pumping over spills.

Appropriate clean up procedures

Take up liquid spill into a non-combustible material e.g.: dry sand/earth/vermiculite.

Or kieselguhr.

Scoop absorbed substance into closing containers.

Carefully collect the spill/leftovers.

Take collected spill to manufacturer/competent authority.

Inappropriate containment or clean up techniques

None known.

6.4 Reference to other sections

See also the sections 8 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

This substance should be handled under strictly controlled conditions as specified in REACH regulation article 18(4). Site documentation to support safe handling arrangements in accordance with risk-based management system should



	first version: 2022-09-27	Date of print: 2025-02-
		During the whole lifecycle all necessary measures should be undertaken to minimize ng exposure. Use product only in closed system.
	Recommendations for s	Reduce/avoid exposure and/or contact.
		Use spark-/explosion proof appliances and lighting systems
		Take precautions against electrostatic charges
		Handle uncleaned empty containers as full ones.
		Do not discharge the waste into the drain.
	Advice on occupational	hygiene
		Do not eat, drink or smoke in work areas.
7.2	Conditions for safe safe safe safe safe safe safe safe	orage, including any incompatibilities
	Protection against mco	Keep container tightly closed.
		Ventilation at floor level.
		Provide a tub to collect spills.
		Keep away from: heat sources, ignition sources, oxidizing agents, acids, bases, organic
		materials.
	Protection against amb	
	_	Store in a cool area.
		Recommended storage temperature: 20 °C.
	Maintenance on the inte	
		Not required.
7.3	Specific end use(s)	
		Transported isolated intermediate
SEC	TION 8: Exposure	controls/personal protection
SEC 8.1	Control parameters	controls/personal protection
	•	Controls/personal protection
	Control parameters Not listed. DNEL/PNEC Exposure controls	No data available.
8.1	Control parameters Not listed. DNEL/PNEC Exposure controls This substance should be Site documentation to sup be available at each site.	No data available. handled under strictly controlled conditions as specified in REACH regulation article 18(4). oport safe handling arrangements in accordance with risk-based management system shou During the whole lifecycle all necessary measures should be undertaken to minimize
8.1 8.2	Control parameters Not listed. DNEL/PNEC Exposure controls This substance should be Site documentation to sup be available at each site. emissions and any resulti	No data available. handled under strictly controlled conditions as specified in REACH regulation article 18(4). oport safe handling arrangements in accordance with risk-based management system shou During the whole lifecycle all necessary measures should be undertaken to minimize ng exposure. Use product only in closed system.
8.1 8.2	Control parameters Not listed. DNEL/PNEC Exposure controls This substance should be Site documentation to sup be available at each site.	No data available. handled under strictly controlled conditions as specified in REACH regulation article 18(4). oport safe handling arrangements in accordance with risk-based management system shou During the whole lifecycle all necessary measures should be undertaken to minimize ng exposure. Use product only in closed system.
8.1 8.2 8.2.1	Control parameters Not listed. DNEL/PNEC Exposure controls This substance should be Site documentation to su be available at each site. emissions and any resulti Appropriate engineering	No data available. handled under strictly controlled conditions as specified in REACH regulation article 18(4). oport safe handling arrangements in accordance with risk-based management system shou During the whole lifecycle all necessary measures should be undertaken to minimize ng exposure. Use product only in closed system. g controls
3.1 3.2 3.2.1	Control parameters Not listed. DNEL/PNEC Exposure controls This substance should be Site documentation to su be available at each site. emissions and any resulti Appropriate engineering	No data available. handled under strictly controlled conditions as specified in REACH regulation article 18(4). port safe handling arrangements in accordance with risk-based management system shou During the whole lifecycle all necessary measures should be undertaken to minimize ng exposure. Use product only in closed system. g controls Ventilation and local exhaust. sures, such as personal protective
8.1 8.2 8.2.1	Control parameters Not listed. DNEL/PNEC Exposure controls This substance should be Site documentation to sup be available at each site. emissions and any resulti Appropriate engineering Individual protection mea a) Eye/face protection	No data available. handled under strictly controlled conditions as specified in REACH regulation article 18(4). poort safe handling arrangements in accordance with risk-based management system shou During the whole lifecycle all necessary measures should be undertaken to minimize ng exposure. Use product only in closed system. g controls Ventilation and local exhaust.
8.1 8.2 8.2.1	Control parameters Not listed. DNEL/PNEC Exposure controls This substance should be Site documentation to sup be available at each site. emissions and any resulti Appropriate engineering Individual protection mea a) Eye/face protection	No data available. handled under strictly controlled conditions as specified in REACH regulation article 18(4). poort safe handling arrangements in accordance with risk-based management system shou During the whole lifecycle all necessary measures should be undertaken to minimize ng exposure. Use product only in closed system. g controls Ventilation and local exhaust. sures, such as personal protective Protective goggles. (EN 166)
8.1 8.2 8.2.1	Control parameters Not listed. DNEL/PNEC Exposure controls This substance should be Site documentation to sup be available at each site. emissions and any resulti Appropriate engineering Individual protection mea a) Eye/face protection	No data available. handled under strictly controlled conditions as specified in REACH regulation article 18(4). poort safe handling arrangements in accordance with risk-based management system shou During the whole lifecycle all necessary measures should be undertaken to minimize ng exposure. Use product only in closed system. g controls Ventilation and local exhaust. sures, such as personal protective Protective goggles. (EN 166) Gloves (EN374) Breakthrough time not determined
8.1 8.2 8.2.1	Control parameters Not listed. DNEL/PNEC Exposure controls This substance should be Site documentation to sup be available at each site. emissions and any resulti Appropriate engineering Individual protection mea a) Eye/face protection b) Skin protection Hand protection	No data available. handled under strictly controlled conditions as specified in REACH regulation article 18(4). poort safe handling arrangements in accordance with risk-based management system shou During the whole lifecycle all necessary measures should be undertaken to minimize ng exposure. Use product only in closed system. g controls Ventilation and local exhaust. sures, such as personal protective Protective goggles. (EN 166) Gloves (EN374) Suitable material: butyl rubber, viton
3.1 3.2 3.2.1	Control parameters Not listed. DNEL/PNEC Exposure controls This substance should be Site documentation to sup be available at each site. emissions and any resulti Appropriate engineering Individual protection mea a) Eye/face protection	No data available. handled under strictly controlled conditions as specified in REACH regulation article 18(4). poport safe handling arrangements in accordance with risk-based management system shou During the whole lifecycle all necessary measures should be undertaken to minimize ng exposure. Use product only in closed system. g controls Ventilation and local exhaust. sures, such as personal protective Protective goggles. (EN 166) Gloves (EN374) Suitable material: butyl rubber, viton Protective clothing.
3.1 3.2 3.2.1	Control parameters Not listed. DNEL/PNEC Exposure controls This substance should be Site documentation to sup be available at each site. emissions and any resulti Appropriate engineering Individual protection mea a) Eye/face protection b) Skin protection Hand protection Body protection	No data available. handled under strictly controlled conditions as specified in REACH regulation article 18(4). poport safe handling arrangements in accordance with risk-based management system shou During the whole lifecycle all necessary measures should be undertaken to minimize ng exposure. Use product only in closed system. g controls Ventilation and local exhaust. sures, such as personal protective Protective goggles. (EN 166) Gloves (EN374) Suitable material: butyl rubber, viton Protective clothing. Suitable material: butyl rubber, viton
8.1 8.2 8.2.1	Control parameters Not listed. DNEL/PNEC Exposure controls This substance should be Site documentation to sup be available at each site. emissions and any resulti Appropriate engineering Individual protection mea a) Eye/face protection b) Skin protection Hand protection	No data available. handled under strictly controlled conditions as specified in REACH regulation article 18(4). poport safe handling arrangements in accordance with risk-based management system shou During the whole lifecycle all necessary measures should be undertaken to minimize ng exposure. Use product only in closed system. g controls Ventilation and local exhaust. sures, such as personal protective Protective goggles. (EN 166) Gloves (EN374) Suitable material: butyl rubber, viton Protective clothing. Suitable material: butyl rubber, viton Migh gas/vapour concentration: compressed air/oxygen apparatus
8.1 8.2 8.2.1	Control parameters Not listed. DNEL/PNEC Exposure controls This substance should be Site documentation to sup be available at each site. emissions and any resulti Appropriate engineering Individual protection mea a) Eye/face protection b) Skin protection Hand protection Body protection c) Respiratory protecti	No data available. handled under strictly controlled conditions as specified in REACH regulation article 18(4). poport safe handling arrangements in accordance with risk-based management system should During the whole lifecycle all necessary measures should be undertaken to minimize ng exposure. Use product only in closed system. g controls Ventilation and local exhaust. sures, such as personal protective Protective goggles. (EN 166) Gloves (EN374) Suitable material: butyl rubber, viton Protective clothing. Suitable material: butyl rubber, viton Protective clothing.
8.1 8.2 8.2.1	Control parameters Not listed. DNEL/PNEC Exposure controls This substance should be Site documentation to sup be available at each site. emissions and any resulti Appropriate engineering Individual protection mea a) Eye/face protection b) Skin protection Hand protection Body protection	No data available. handled under strictly controlled conditions as specified in REACH regulation article 18(4). poprt safe handling arrangements in accordance with risk-based management system shou During the whole lifecycle all necessary measures should be undertaken to minimize ng exposure. Use product only in closed system. g controls Ventilation and local exhaust. sures, such as personal protective Protective goggles. (EN 166) Gloves (EN374) Suitable material: butyl rubber, viton Protective clothing. Suitable material: butyl rubber, viton High gas/vapour concentration: compressed air/oxygen apparatus
8.1 8.2 8.2.1 8.2.2	Control parameters Not listed. DNEL/PNEC Exposure controls This substance should be Site documentation to sup be available at each site. emissions and any resulti Appropriate engineering Individual protection mea a) Eye/face protection b) Skin protection Hand protection Body protection c) Respiratory protecti d) Thermal hazards	No data available. handled under strictly controlled conditions as specified in REACH regulation article 18(4). oport safe handling arrangements in accordance with risk-based management system shou During the whole lifecycle all necessary measures should be undertaken to minimize ng exposure. Use product only in closed system. g controls Ventilation and local exhaust. sures, such as personal protective Protective goggles. (EN 166) Gloves (EN374) Breakthrough time not determined Suitable material: butyl rubber, viton Protective clothing. Suitable material: butyl rubber, viton on High gas/vapour concentration: compressed air/oxygen apparatus Gas mask with filter type AX (EN 14387) Not applicable.
B.2B.2.1B.2.2B.2.2	Control parameters Not listed. DNEL/PNEC Exposure controls This substance should be Site documentation to sup be available at each site. emissions and any resulti Appropriate engineering Individual protection mea a) Eye/face protection b) Skin protection Hand protection Body protection c) Respiratory protecti	No data available. handled under strictly controlled conditions as specified in REACH regulation article 18(4). oport safe handling arrangements in accordance with risk-based management system shou During the whole lifecycle all necessary measures should be undertaken to minimize ng exposure. Use product only in closed system. g controls Ventilation and local exhaust. sures, such as personal protective Protective goggles. (EN 166) Gloves (EN374) Suitable material: butyl rubber, viton Protective clothing. Suitable material: butyl rubber, viton Migh gas/vapour concentration: compressed air/oxygen apparatus Gas mask with filter type AX (EN 14387) Not applicable.



Date of first version: 2022-09-27

Date of print: 2025-02-16

SEC 9.1	TION 9: Physical and	d chemical propertie	es
	Information on basic ph Physical state Colour: Odour Melting point/freezing poin Boiling point or initial boil range Flammability Lower and upper explosion Flashpoint Auto-ignition temperature Decomposition temperature Decomposition temperature pH Kinematic viscosity (20°C Solubility Partition coefficient n-octa Vapour pressure (at 20°C) Vapour pressure (at 50°C) Density and/or relative der Relative vapour density Particle characteristics	nt ing point and boiling on limit re) anol/water (log value)	pertiesLiquidColourless to pale yellowSweet/ether like-88.7°C63.7°CHighly flammable.N.D30°C (closed cup)N.D.N.D.N.D.N.D.N.D.N.D.N.D.N.D.N.D.N.D.N.D.N.D.N.D.N.D.Water: 3g/L, soluble in ethanol, ether.1.85142 mmHg480 mmHg0.912.84Not applicable.
9.2 9.2.1 9.2.2	Not classified		623 g/m ³ 4 mPa.s Violent exothermic reaction with (strong oxidizers), reacts violently with (some) acids/bases Unstabilized product reacts slowly on exposure to air: peroxidation resulting in increased fire or explosion risk.
SEC	TION 10: Stability ar	nd reactivity	
10.1	Reactivity	Not reactive.	
10.2	Chemical stability	Stable under normal tempe	ratures and pressures.
10.3	Possibility of hazardous		with explosive violence in the presence of (strong) acids.
10.4	Conditions to avoid	Keep away from: heat sources, ignition sources, oxidizing agents, acids, bases, organic materials.	
10.5	Incompatible materials	Reacts violently with oxidar	nts and strong acids (polymerization).
10.6	Hazardous decomposit		carbon monoxide, carbon dioxide and/or low molecular weight



Date of first version: 2022-09-27

Date of print: 2025-02-16

SECTION 11: Toxicological information

11.1 2)	· · · · · · · · · · · · · · · · · · ·			
a)	LD50 (oral, rat) (mg/kg)	133		
	LD50 (dermal, rabbit) (mg/kg)	1600 (24 h) (percutaneous administration)		
b)	LC50 (inhalation, rat, 4 hours) (vapour) Skin corrosion/irritation	2.48 mg/L Mild skin irritation.		
b) c)	Skin conosion/initiation Serious eye damage/irritation	Mild eye irritation.		
d)	Respiratory or skin sensitization	No data available		
e)	Germ cell mutagenicity	Different studies in vitro and in vivo are available: substance should		
f)	Carcinogenicity	not be considered genotoxic/mutagenic. No data available		
g)	Reproductive toxicity	No data available		
h)	STOT- single exposure	No data available		
i)	STOT- repeated exposure	Centrilobular necrosis findings observed in a oral repeated dose toxicity study.		
j)	Aspiration hazard	No data available		
11.2	Information on other hazards			
11.2.1				
11.2.2	No endocrine disrupting properties identified. Other information			
	Not applicable.			
SEC	SECTION 12: Ecological information			
12.1	Toxicity			
	Aquatic compartment and sediment			
	LC50 (fish, 48 hours) (mg/l)	Average 431.5 (average of 237 and 626)		
	EC50 (Daphnia, 24 hours) (mg/l) NOEC (blue-green algae, 8 d) (mg/l)	888 40		
		J.		
12.2	Persistence and degradability			
	Biodegradability	Not readily biodegradable		
12.3	Bioaccumulative potential			
	Partition coefficient: n-octanol water (log Kow) (conc in organisms / conc. in water)	1.85		
	(conc m organisms / conc. m water)			
12.4	Mobility in soil			
	Adsorption coefficient (Koc) solid phase / liquid phase	N.D.		
	phase			
12.5	Results of PBT and vPvB assessment	N.D.		
12.6	Endocrine disrupting properties			
	Adverse environmental effects of endocrine disru	ptors are not relevant (see subsection 2.3)		
12.7	Other adverse effects			
	Water hazard class (WGK Germany)	1		

Safety Data Sheet according to Regulation (EC) No 1907/2006



2 - Methylfuran - HP

Date of first version: 2022-09-27

Date of print: 2025-02-16

SECTION 13: Disposal considerations

13.1 Waste treatment methods Substance

	Recycling by distillation. Removal to an authorized waste incinerator for solvents or as chemical waste in accordance with local regulations. Do not discharge wastewater into sewer.
European waste list (EURAL)	07 01 04* (other organic solvents, washing liquids and mother liquors)
Waste Material code (Flanders) Packaging/container	015; 034
	15 01 10* (packaging containing residues of or contaminated by dangerous substances)

SECTION 14: Transport information



14.1	UN Number or ID number	UN2301
14.2	UN proper shipping name	2-METHYLFURAN
14.3	Transport hazard class(es)	3
14.4	Packing group	II
14.5	Environmental hazards Marine pollutant Emergency Schedules IMDG - Fire schedule - Spillage schedule Hazard for tank vessels (ADN)	- Echo (F – E) Delta (S – D) 3
14.6	Specials precautions for user Classification code (ADR/RID) Label(s) (ADR/RID/ADN/IMDG/IATA) Tunnel restriction code (ADR/RID) Hazard Identification Number (ADR/RID) Limited quantity (ADR/RID/ADN/IMDG/IATA) Excepted quantity (ADR/RID/ADN/IMDG/IATA). ICAO (air transport) - Packing instructions passenger aircraft	F1 3 (D/E) 33 1L E2 LQ: Y341 - 1L 353 - 5L 364 - 60L
14 7	Maritime transport in bulk according to IMO in	struments

Maritime transport in bulk according to IMO instruments 14.7 IMO Hazard class. Class 3 Flammable liquids

SECTION 15: Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture 15.1 Not available.



Date of first version: 2022-09-27

Date of print: 2025-02-16

15.2 Chemical safety assessment Not applicable.

SECTION 16: Other information

 16.1 Changes to the previous version. Reach registration number in section 1
 ► Indicates changes in content from previously issued version Date of revision: 14-02-2025 Version: 002 Date of previous version: 27-09-2022

16.2 Abbreviations and acronyms

EC50	Effect Concentration, 50 percent
GHS / CLP	Globally Harmonised System / Classification, Labelling and Packaging
LC50	Lethal Concentration, 50 percent
LD50	Lethal Dose, 50 percent
PBT	Persistent, Bioaccumulative and Toxic
STOT	Single Target Organ Toxicity
vPvB	very Persistent and very Bioaccumulative