



Fuel Stabilizer

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

MSDS Version: E07.02

Date of issue: 10/04/2017

Blend Version: 3

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

1.1. Product identifier

Product form : Mixtures
Product name : Fuel Stabilizer
Product code : W23912

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

1.2.1. Relevant identified uses

Use of the substance/mixture : Petrol additive.

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Wynn's Belgium
Industriepark-West 46
9100 Sint-Niklaas - Belgium
T +32 3 766 60 20 - F +32 3 778 16 56
msds@wynns.eu - www.wynns.com

1.4. Emergency telephone number

Emergency number : BIG: +32(0)14/58.45.45 (NL FR EN DE)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Skin Irrit. 2	H315
Eye Dam. 1	H318
Skin Sens. 1	H317
STOT RE 1	H372
Asp. Tox. 1	H304
Aquatic Chronic 3	H412

Full text of hazard classes and H-statements : see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS05

GHS07

GHS08

Signal word (CLP) : Danger

Hazardous ingredients : potassium 1,2-bis(2-ethylhexyloxycarbonyl)ethanesulphonate; Reaction mass of 2-tert-butyl-4,6-dimethylphenol and 4-tert-butyl-2,5-dimethylphenol; hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

Hazard statements (CLP) : H304 - May be fatal if swallowed and enters airways
H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H318 - Causes serious eye damage
H372 - Causes damage to organs (central nervous system) through prolonged or repeated exposure
H412 - Harmful to aquatic life with long lasting effects

Precautionary statements (CLP) : P102 - Keep out of reach of children
P405 - Store locked up
P260 - Do not breathe vapours
P280 - Wear eye protection, protective gloves

Fuel Stabilizer

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER, a doctor
P331 - Do NOT induce vomiting
P273 - Avoid release to the environment

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	% w	Classification according to Regulation (EC) No. 1272/2008 [CLP]
hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	(EC-No.) 919-164-8 (REACH-no) 01-2119473977-17	75 - 90	STOT RE 1, H372 Asp. Tox. 1, H304 Aquatic Chronic 3, H412
potassium 1,2-bis(2-ethylhexyloxycarbonyl)ethanesulphonate	(CAS-No.) 7491-09-0 (EC-No.) 231-308-5 (REACH-no) 01-2119919740-39	5 - 10	Skin Irrit. 2, H315 Eye Dam. 1, H318
Reaction mass of 2-tert-butyl-4,6-dimethylphenol and 4-tert-butyl-2,5-dimethylphenol	(EC-No.) 911-254-5 (REACH-no) 01-2119537289-29	1 - 2,5	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2,6-di-tert-butyl-p-cresol	(CAS-No.) 128-37-0 (EC-No.) 204-881-4 (REACH-no) 01-2119565113-46	0,1 - 1	Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

- First-aid measures general : Check the vital functions. Keep victim at rest in half upright position. Unconscious: maintain adequate airway and respiration. Respiratory arrest: artificial respiration or oxygen. Cardiac arrest: perform resuscitation. Victim in shock: on his back with legs slightly raised. Vomiting: prevent asphyxia/aspiration pneumonia. Keep watching the victim. Give psychological aid. Prevent cooling by covering the victim (no warming up). Keep the victim calm, avoid physical strain. If necessary seek medical advice.
- First-aid measures after inhalation : If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
- First-aid measures after skin contact : After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water and soap. If skin irritation or rash occurs: Get medical advice/attention.
- First-aid measures after eye contact : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Consult an eye specialist.
- First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER or doctor/physician if you feel unwell. Ingestion of large quantities: immediately to hospital.

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

- Symptoms/effects after skin contact : Causes skin irritation. May cause an allergic skin reaction. Repeated exposure may cause skin dryness or cracking.
- Symptoms/effects after eye contact : Causes serious eye damage.
- Symptoms/effects after ingestion : Headache. Abdominal pain. Harmful if swallowed. Risk of aspiration pneumonia. May be fatal if swallowed and enters airways.

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

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media : Water spray. AFFF foam. ABC-powder.

Fuel Stabilizer

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

5.2. Special hazards arising from the substance or mixture

- Fire hazard : Combustible liquid. This material can accumulate static charge by flow or agitation and can be ignited by static discharge.
- Explosion hazard : Product is not explosive.

5.3. Advice for firefighters

- Firefighting instructions : Prevent fire fighting water from entering the environment.
- Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Use special care to avoid static electric charges. No open flames, no sparks, and no smoking. Keep upwind.

6.1.1. For non-emergency personnel

- Protective equipment : Wear suitable gloves and eye/face protection. protective clothing.
- Emergency procedures : Mark the danger area. Prevent flow to low areas. In confined space use self-contained breathing apparatus. Take off contaminated clothing and wash before reuse.

6.1.2. For emergency responders

- Protective equipment : Equip cleanup crew with proper protection.

6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up

- For containment : Collect spillage. Contain leaking substance, pump over in suitable containers.
- Methods for cleaning up : Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal. Clean preferably with a detergent - Avoid the use of solvents.

6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection".

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Presents no particular risk when handled in accordance with good occupational hygiene practice. Repeated exposure may cause skin dryness or cracking. Ensure good ventilation of the work station. Meet the legal requirements.
- Hygiene measures : Use good personal hygiene practices. IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

- Technical measures : Provide good ventilation in process area to prevent formation of vapour.
- Storage conditions : Meet the legal requirements. Protect from sunlight. Store in a well-ventilated place.
- Storage temperature : < 45 °C
- Storage area : Meet the legal requirements. Ventilation along the floor.
- Special rules on packaging : Meet the legal requirements. Store in a closed container. Labelling according to.

7.3. Specific end use(s)

See product bulletin for detailed information.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

Belgium	Limit value (mg/m ³)	533 mg/m ³
Belgium	Limit value (ppm)	100 ppm
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	100 ppm

2,6-di-tert-butyl-p-cresol (128-37-0)

Belgium	Limit value (mg/m ³)	2 mg/m ³
---------	----------------------------------	---------------------

Fuel Stabilizer

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

potassium 1,2-bis(2-ethylhexyloxycarbonyl)ethanesulphonate (7491-09-0)

DNEL/DMEL (Workers)

Long-term - systemic effects, dermal	7,5 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	52,8 mg/m ³
DNEL/DMEL (General population)	
Long-term - systemic effects,oral	3,75 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	13,04 mg/m ³
Long-term - systemic effects, dermal	3,75 mg/kg bodyweight/day
PNEC (Water)	
PNEC aqua (freshwater)	0,007 mg/l
PNEC aqua (marine water)	0,001 mg/l
PNEC aqua (intermittent, freshwater)	0,066 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	0,525 mg/kg dwt
PNEC sediment (marine water)	0,052 mg/kg dwt
PNEC (Soil)	
PNEC soil	0,101 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	122 mg/l

Reaction mass of 2-tert-butyl-4,6-dimethylphenol and 4-tert-butyl-2,5-dimethylphenol

DNEL/DMEL (Workers)

Acute - systemic effects, dermal	0,12 mg/kg bodyweight/day
Acute - systemic effects, inhalation	10,6 mg/m ³
Long-term - systemic effects, dermal	0,02 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	0,14 mg/m ³
DNEL/DMEL (General population)	
Acute - systemic effects, dermal	0,06 mg/kg bodyweight
Acute - systemic effects, inhalation	5,17 mg/m ³
Acute - systemic effects, oral	0,06 mg/kg bodyweight
Long-term - systemic effects,oral	0,01 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	0,035 mg/m ³
Long-term - systemic effects, dermal	0,01 mg/kg bodyweight/day
PNEC (Sediment)	
PNEC sediment (freshwater)	0,547 mg/kg dwt
PNEC sediment (marine water)	0,0547 mg/kg dwt
PNEC (Soil)	
PNEC soil	0,26 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	2,2 mg/l

2,6-di-tert-butyl-p-cresol (128-37-0)

DNEL/DMEL (Workers)

Acute - systemic effects, dermal	19 mg/kg bodyweight/day
Acute - systemic effects, inhalation	18 mg/m ³
Long-term - systemic effects, dermal	4,7 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	4,4 mg/m ³
DNEL/DMEL (General population)	
Acute - systemic effects, dermal	6,7 mg/kg bodyweight
Acute - systemic effects, inhalation	3,1 mg/m ³
Acute - systemic effects, oral	1 mg/kg bodyweight
Long-term - systemic effects,oral	0,25 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	0,78 mg/m ³
Long-term - systemic effects, dermal	1,7 mg/kg bodyweight/day
PNEC (Oral)	
PNEC oral (secondary poisoning)	8,33 mg/kg food
PNEC (STP)	
PNEC sewage treatment plant	0,17 mg/l

Fuel Stabilizer

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

8.2. Exposure controls

Appropriate engineering controls : Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Does not require any specific or particular technical measures. Ensure good ventilation of the work station.

Personal protective equipment : Gloves. Safety glasses.



Hand protection : Neoprene. Nitrile rubber. Choosing the proper glove is a decision that depends not only on the type of material, but also on other quality features, which differ for each manufacturer. Time of penetration is to be checked with the glove producer.

Respiratory protection : No special respiratory protection equipment is recommended under normal conditions of use with adequate ventilation. In case of inadequate ventilation wear respiratory protection. Combined gas/dust mask with filter type ABEK.

Environmental exposure controls : Avoid release to the environment.

Other information : Breakthrough time : >30'. Thickness of the glove material >0,1 mm.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: clear.
Colour	: red.
Odour	: petroleum-like odour.
Odour threshold	: No data available
pH	:
Relative evaporation rate (butylacetate=1)	: No data available
refraction index	: 1,45
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: 62 °C
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density @20°C	: 827 kg/m ³
Solubility	: Insoluble in water.
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic @40°C	: 1,5 mm ² /s
Viscosity, dynamic @40°C	: No data available
Viscosity	:
Viscosity Index	:
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

9.2. Other information

VOC content : 86,74 %

Additional information : The physical and chemical data in this section are typical values for this product and are not intended as product specifications.

Fuel Stabilizer

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

Keep away from strong acids and strong oxidizers. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

On burning: release of harmful/irritant gases/vapours. Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Harmful: may cause lung damage if swallowed

hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

LD50 oral rat > 15000 mg/kg

LD50 dermal rabbit > 3400 mg/kg

LC50 inhalation rat (mg/l) > 13,1 mg/l/4h

potassium 1,2-bis(2-ethylhexyloxycarbonyl)ethanesulphonate (7491-09-0)

LD50 oral rat > 2100 mg/kg bodyweight WISW (SPF TNO)

LD50 dermal rabbit > 10000 mg/kg bodyweight New Zealand White

Reaction mass of 2-tert-butyl-4,6-dimethylphenol and 4-tert-butyl-2,5-dimethylphenol

ATE CLP (oral) 500,000 mg/kg bodyweight

2,6-di-tert-butyl-p-cresol (128-37-0)

LD50 oral rat > 10000 mg/kg bodyweight Sprague-Dawley

LD50 dermal rat > 2000 mg/kg bodyweight Sprague-Dawley

Skin corrosion/irritation : Causes skin irritation.

Serious eye damage/irritation : Causes serious eye damage.

Respiratory or skin sensitisation : May cause an allergic skin reaction.

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

STOT-single exposure : Not classified

STOT-repeated exposure : Causes damage to organs (central nervous system) through prolonged or repeated exposure.

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

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : This product contains hazardous components for the aquatic environment.

Ecology - water : Harmful to aquatic life with long lasting effects.

potassium 1,2-bis(2-ethylhexyloxycarbonyl)ethanesulphonate (7491-09-0)

LC50 fish 1 49 mg/l @96h Brachydanio rerio

EC50 Daphnia 1 6,6 mg/l @48h Daphnia magna

EC50 other aquatic organisms 1 39,3 mg/l @72h Desmodesmus subspicatus

2,6-di-tert-butyl-p-cresol (128-37-0)

LC50 fish 1 96h 1,1 mg/l Oryzias latipes

EC50 Daphnia 1 48h 0,48 mg/l Daphnia magna

Fuel Stabilizer

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

2,6-di-tert-butyl-p-cresol (128-37-0)

EC50 other aquatic organisms 1 > 0,4 mg/l @72h *Desmodesmus subspicatus*
NOEC (acute) 48h 0,15 mg/l *Daphnia magna*

12.2. Persistence and degradability

potassium 1,2-bis(2-ethylhexyloxycarbonyl)ethanesulphonate (7491-09-0)

Persistence and degradability Readily biodegradable in water.

2,6-di-tert-butyl-p-cresol (128-37-0)

Persistence and degradability Not readily biodegradable in water. Biodegradable in the soil. Adsorbs into the soil. Photooxidation in the air.

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

2,6-di-tert-butyl-p-cresol (128-37-0)

Ecology - soil May be harmful to plant growth, blooming and fruit formation.

12.5. Results of PBT and vPvB assessment

hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Remove to an authorized waste treatment plant. Avoid release to the environment.

European List of Waste (LoW) code : 14 06 03* - other solvents and solvent mixtures
15 01 10* - packaging containing residues of or contaminated by dangerous substances

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number

Not regulated for transport

14.2. UN proper shipping name

Not applicable

14.3. Transport hazard class(es)

Not applicable

14.4. Packing group

Not applicable

14.5. Environmental hazards

Other information : No supplementary information available.

14.6. Special precautions for user

14.6.1. Overland transport

No additional information available

14.6.2. Transport by sea

No additional information available

14.6.3. Air transport

No additional information available

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Not applicable

Fuel Stabilizer

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

VOC content : 86,74 %

15.1.2. National regulations

Water hazard class (WGK) : 2 - hazard to waters

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Full text of H- and EUH-statements:

Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Asp. Tox. 1	Aspiration hazard, Category 1
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
STOT RE 1	Specific target organ toxicity — Repeated exposure, Category 1
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2
H302	Harmful if swallowed
H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation
H372	Causes damage to organs through prolonged or repeated exposure
H373	May cause damage to organs through prolonged or repeated exposure
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product