



# Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) revised in 2012 and GHS Rev 03.

Issue date 06/03/2022

Reviewed on 06/03/2022

## 1 Identification

- **Product Identifier**
- **Trade Name:** HappyFuel®, HF-15, HF-20
- **Product Number:** HF-R4
- **CAS Number:** Blend
- **Relevant identified uses of the substance or mixture and uses advised against:**
- **Product Description:**



Designed, Sourced, and Bottled in the USA.

Fuel additive, Fuel stabilizer, Oxadation preventative, Fuel life extender.  
PATENT PENDING FORMULA

- **Application of the substance / the mixture:**  
Fuel additive for extending the life of gasoline in classic cars, motorcycles, motorhomes, snowmobiles, and any 2-stroke and 4-stroke engines. In fact any gasoline engine that is stored for more than 2 months at a time.
- **Details of the Supplier of the Safety Data Sheet:**
- **Manufacturer/Supplier:**  
HappyFuel, LLC.  
1155 Park Avenue  
Emeryville, CA 94608  
Phone: 248-639-7722  
www.HappyFuel.net  
sales@happyfuel.net
- **Emergency telephone number:**  
PERS Emergency Response  
Domestic and Canada: 1-800-633-8253  
International: +001-801-629-0667

## 2 Hazard(s) Identification

- **Classification of the substance or mixture:**



Skin Irritation 2      H315 Causes skin irritation.  
Eye Irritation 2A      H319 Causes serious eye irritation.  
Flammable Liquids 4      H227 Combustible liquid.

- **Label elements:**
- **Hazard pictograms:**



- **Signal word:** Warning
- **Hazard-determining components of labeling:**  
Antioxidant/Lubricant
- **Hazard statements:**  
H227 Combustible liquid.  
H315 Causes skin irritation.

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H319 Causes serious eye irritation.

**Precautionary statements:**

- P210 Keep away from flames and hot surfaces. – No smoking.
- P264 Wash thoroughly after handling.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P302+P352 If on skin: Wash with plenty of water.
- P321 Specific treatment (see supplementary first aid instructions on this Safety Data Sheet).
- P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P332+P313 If skin irritation occurs: Get medical advice/attention.
- P362+P364 Take off contaminated clothing and wash it before reuse.
- P337+P313 If eye irritation persists: Get medical advice/attention.
- P370+P378 In case of fire: Use CO<sub>2</sub>, powder or water spray to extinguish.
- P403+P235 Store in a well-ventilated place. Keep cool.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**Unknown acute toxicity:**

This value refers to knowledge of known, established toxicological or ecotoxicological values.  
0 % of the mixture consists of component(s) of unknown toxicity.

**Classification system:** NFPA/HMIS Definitions: 0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme

**NFPA ratings (scale 0 - 4)****HMIS-ratings (scale 0 - 4)**

HEALTH	2	Health = 2
FIRE	2	Fire = 2
REACTIVITY	0	Physical Hazard = 0

**Hazard(s) not otherwise classified (HNOC):** None known

**\* 3 Composition/Information on Ingredients****Chemical characterization: Substance**

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

**Dangerous Components:**

	Antioxidant/Lubricant ⚠ Skin Corrosion 1A, H314	15-35%
	Water Scavenger ⚠ Acute Toxicity - Dermal 3, H311; ⚠ Acute Toxicity - Oral 4, H302; Acute Toxicity - Inhalation 4, H332; Skin Irritation 2, H315; Eye Irritation 2A, H319; Flammable Liquids 4, H227	15-35%
64742-47-8	Distillates (petroleum), hydrotreated light ⚠ Aspiration Hazard 1, H304; ⚠ Skin Irritation 2, H315; Specific Target Organ Toxicity - Single Exposure 3, H336; Flammable Liquids 4, H227	15-35%

**Additional information:**

The ingredients of this mixture are considered to be proprietary and in accordance with paragraph (i) of §1910.1200 of 29 CFR 1910.1200, the OSHA Hazard Communication Standard and U.S. Code of Federal Regulations.

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### 4 First-Aid Measures

- **Description of first aid measures**
- **General information:** If symptoms persist, call a physician.
- **After inhalation:** In case of unconsciousness place patient stably in the side position for transportation.
- **After skin contact:**  
Immediately wash with water and soap and rinse thoroughly.  
If skin irritation occurs, consult a doctor.
- **After eye contact:**  
Rinse opened eye for at least 15 minutes under running water. If symptoms persist, consult a doctor.  
If easy to do so, remove contact lenses if worn.  
If eye irritation occurs, consult a doctor.
- **After swallowing:** If swallowed and symptoms occur, consult a doctor.
- **Information for doctor**
- **Most important symptoms and effects, both acute and delayed:** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed:**  
No further relevant information available.

### 5 Fire-Fighting Measures

- **Extinguishing media**
- **Suitable extinguishing agents:**  
CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires 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:**  
Combustible liquid. Vapors can travel to a source of ignition and flash back.  
Explosive mixtures may occur at temperatures at or above flashpoint.
- **Advice for firefighters**
- **Special protective equipment for firefighters:**  
As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent) and full protective gear to prevent contact with skin and eyes.

### 6 Accidental Release Measures

- **Personal precautions, protective equipment and emergency procedures:** Not required.
- **Environmental precautions:** Dilute with plenty of water.
- **Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (i.e. sand, diatomite, acid binders, universal binders, sawdust).  
Ensure adequate ventilation.  
Dispose of the collected material according to regulations.
- **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.

· <b>PAC-1:</b>	
Water Scavenger	60 ppm
· <b>PAC-2:</b>	
Water Scavenger	120 ppm
· <b>PAC-3:</b>	
Water Scavenger	700 ppm

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- **Handling**
- **Precautions for safe handling:**  
Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of aerosols.
- **Information about protection against explosions and fires:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **Storage**
- **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 receptacle tightly sealed.
- **Specific end use(s):** No further relevant information available.

**8 Exposure Controls/Personal Protection**

- **Additional information about design of technical systems:** No further data; see section 7.
- **Control parameters:**
- **Components with occupational exposure limits:**  
The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.  
At this time, the remaining constituents have no known exposure limits.

**Water Scavenger**

PEL	Long-term value: 240 mg/m <sup>3</sup> , 50 ppm Skin
REL	Long-term value: 24 mg/m <sup>3</sup> , 5 ppm Skin
TLV	Long-term value: 20 ppm BEI, A3

**64742-47-8 Distillates (petroleum), hydrotreated light**

OSHA PEL	Long-term value: 5 mg/m <sup>3</sup>
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- **Ingredients with biological limit values:**

**Water Scavenger**

BEI	200 mg/g creatinine urine end of shift Butoxyacetic acid (BAA) (with hydrolysis)
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- **Additional information:** The lists that were valid during the creation of this SDS were used as basis.
- **Exposure controls:**
- **Personal protective equipment**
- **General protective and hygienic measures:**  
The usual precautionary measures for handling chemicals should be followed.  
Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing and wash before reuse.  
Wash hands before breaks and at the end of work.  
Avoid contact with the eyes and skin.
- **Breathing equipment:** Not required.

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**Trade Name: HappyFuel®, HF-15, HF-20****· Protection of hands:**

Protective gloves

**· Material of gloves:**

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:**

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

**· Eye protection:**

Tightly sealed goggles

**· Limitation and supervision of exposure into the environment: None****\* 9 Physical and Chemical Properties****· Information on basic physical and chemical properties****· General Information****· Appearance:****Form:**

Liquid

**Color:**

Clear

**· Odor:**

Faint Odor

**· Odor threshold:**

Not determined.

**· pH-value:**

Mixture is non-polar/aprotic.

**· Change in condition****Melting point/Melting range:**

Not determined.

**· Flash point:**

61.1 °C (142 °F) (Closed Cup)

**· Flammability (solid, gaseous):**

Not applicable.

**· Ignition temperature:**

≥210 °C (≥410 °F)

**· Decomposition temperature:**

Not determined.

**· Auto igniting:**

Product is not self-igniting.

**· Danger of explosion:**

Not determined.

**· Explosion limits:****Lower:**

Not determined.

**Upper:**

Not determined.

**· Vapor pressure @ 20 °C (68 °F):**

≤2 hPa (≤1.5 mm Hg)

**· Density @ 20 °C (68 °F):**0.88 g/cm<sup>3</sup> (7.3436 lbs/gal)**· Relative density:**

Not determined.

**· Vapor density:**

Not determined.

**· Evaporation rate:**

Not determined.

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**Trade Name: HappyFuel®, HF-15, HF-20****· Solubility in / Miscibility with:****Water:** Insoluble.**· Partition coefficient (n-octanol/water):** Not determined.**· Viscosity:****Dynamic:** Not determined.**Kinematic:** Not determined.**· Solvent content:****Organic solvents:** 42.0 %**VOC content:** 42.00 %

369.6 g/l / 3.08 lb/gal

**· Other information:**

No further relevant information available.

**10 Stability and Reactivity****· Reactivity:** No further relevant information available.**· Chemical stability:** Product is stable under normal conditions.**· Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.**· Possibility of hazardous reactions:** No dangerous reactions known.**· Conditions to avoid:** Heat, flame and ignition sources.**· Incompatible materials:** No further relevant information available.**· Hazardous decomposition products:** No dangerous decomposition products known.**11 Toxicological Information****· Information on toxicological effects:****· Acute toxicity:****· LD/LC50 values that are relevant for classification:****Water Scavenger**

Oral	LD50	1,200 mg/kg (ATE) 470 mg/kg (Rat)
Dermal	LD50	220 mg/kg (rab)
Inhalative	LC50/4 h	2,174.91 mg/l (Rat)

**64742-47-8 Distillates (petroleum), hydrotreated light**

Oral	LD50	>5,000 mg/kg (Rat)
Dermal	LD50	>2,000 mg/kg (Rabbit)

**· Primary irritant effect:****· On the skin:** Irritant to skin and mucous membranes.**· On the eye:** Irritating effect.**· Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:

Irritant

**· Carcinogenic categories:****· IARC (International Agency for Research on Cancer):**

Group 1 - Carcinogenic to humans

Group 2A - Probably carcinogenic to humans

Group 2B - Possibly carcinogenic to humans

Group 3 - Not classifiable as to its carcinogenicity to humans

Group 4 - Probably not carcinogenic to humans

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Water Scavenger	3
<b>· NTP (National Toxicology Program):</b>	
None of the ingredients are listed.	
<b>· OSHA-Ca (Occupational Safety &amp; Health Administration):</b>	
None of the ingredients are listed.	

**12 Ecological Information****· Toxicity:****· Aquatic toxicity:****Water Scavenger**

EC50 1,815 mg/l (Water flea)

**64742-47-8 Distillates (petroleum), hydrotreated light**

EC50 25 mg/l (Trout) (OECD Test Guideline 203, 96 hour, Static Test)

**· Persistence and degradability:** No further relevant information available.**· Behavior in environmental systems:****· Bioaccumulative potential:** No further relevant information available.**· Mobility in soil:** No further relevant information available.**· Additional ecological information:****· General notes:**

Water hazard class 3 (Self-assessment): extremely hazardous for water

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Danger to drinking water if even extremely small quantities leak into the ground.

**· 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:**

Observe all federal, state and local environmental regulations when disposing of this material.

**· Uncleaned packaging****· Recommendation:** Disposal must be made according to official regulations.**· Recommended cleansing agent:** Water, if necessary with cleansing agents.**14 Transport Information****· UN-Number:****· DOT, ADR/ADN, IMDG, IATA**

Non-Regulated Material

**· UN proper shipping name:****· DOT, ADR/ADN, IMDG, IATA**

Non-Regulated Material

**· Transport hazard class(es):****· DOT, ADR/ADN, ADN, IMDG, IATA****· Class:**

Non-Regulated Material

**· Packing group:****· DOT, ADR/ADN, IMDG, IATA**

Non-Regulated Material

**· Environmental hazards:**

Not applicable.

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- **Special precautions for user:** Not applicable.
- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:** Not applicable.
- **UN "Model Regulation":** Non-Regulated Material

**15 Regulatory Information**

- **Safety, health and environmental regulations/legislation specific for the substance or mixture:**  
No further relevant information available.

- **SARA (Superfund Amendments and Reauthorization):**

<b>Section 355 (extremely hazardous substances):</b>
None of the ingredients are listed.

<b>Section 313 (Specific toxic chemical listings):</b>
Water Scavenger

<b>TSCA (Toxic Substances Control Act):</b>
All components have the value ACTIVE.

<b>Hazardous Air Pollutants</b>
None of the ingredients are listed.

- **California Proposition 65:**

<b>Chemicals known to cause cancer:</b>
None of the ingredients are listed.

- **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients are listed.
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- **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients are listed.
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- **Chemicals known to cause developmental toxicity:**

None of the ingredients are listed.
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- **New Jersey Right-to-Know List:**

Water Scavenger
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- **New Jersey Special Hazardous Substance List:**

Water Scavenger	CA, F2
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- **Pennsylvania Right-to-Know List:**

Water Scavenger
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- **Pennsylvania Special Hazardous Substance List:**

None of the ingredients are listed.
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- **Carcinogenic categories:**

- **EPA (Environmental Protection Agency):**

Water Scavenger	NL
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- **TLV (Threshold Limit Value established by ACGIH):**

Water Scavenger	A3
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- **NIOSH-Ca (National Institute for Occupational Safety and Health):**

None of the ingredients are listed.
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- **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

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**Trade Name: HappyFuel®, HF-15, HF-20****Hazard pictograms:****Signal word:** Warning**Hazard-determining components of labeling:**

Antioxidant/Lubricant

**Hazard statements:**

H227 Combustible liquid.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

**Precautionary statements:**

P210 Keep away from flames and hot surfaces. – No smoking.

P264 Wash thoroughly after handling.

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

P302+P352 If on skin: Wash with plenty of water.

P321 Specific treatment (see supplementary first aid instructions on this Safety Data Sheet).

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P332+P313 If skin irritation occurs: Get medical advice/attention.

P362+P364 Take off contaminated clothing and wash it before reuse.

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

P370+P378 In case of fire: Use CO<sub>2</sub>, powder or water spray to extinguish.

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

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**National regulations:**

The product is not subject to be labelled according with the prevailing version of the regulations on hazardous substances.

**Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### 16 Other Information

The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create warranty, expressed or implied, and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this information and the suitability of the material or product for any particular purpose.

**Contact:****Date of last revision/ revision number:** 06/03/2022 / 11**Abbreviations and acronyms:**

ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road

ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

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)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

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PBT: Persistent, Bioaccumulative and Toxic  
vPvB: very Persistent and very Bioaccumulative  
NIOSH: National Institute for Occupational Safety and Health  
OSHA: Occupational Safety & Health Administration  
TLV: Threshold Limit Value  
PEL: Permissible Exposure Limit  
REL: Recommended Exposure Limit  
BEI: Biological Exposure Limit  
Flammable Liquids 4: Flammable liquids – Category 4  
Acute Toxicity - Oral 4: Acute toxicity – Category 4  
Acute Toxicity - Dermal 3: Acute toxicity – Category 3  
Skin Corrosion 1A: Skin corrosion/irritation – Category 1A  
Skin Irritation 2: Skin corrosion/irritation – Category 2  
Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A  
Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) – Category 3  
Aspiration Hazard 1: Aspiration hazard – Category 1

**\* Data compared to the previous version altered.**

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