



Helix 5-in-1

SAFETY DATA SHEET

OSHA HCS (29 CFR 1910.1200)

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product identifier

| | |
|---------------------------|--------------|
| Chemical Name | Mixture |
| Product Name / Trade Name | Helix 5-in-1 |
| CAS No. | Mixture |

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

| | |
|----------------------|---------------|
| Identified Use(s) | Fuel additive |
| Uses Advised Against | None |

Details of the supplier of the safety data sheet

| | |
|----------------------------|--|
| Name of Supplier | Helix Racing Products 2023 Philip Dr.; Suite D Covington, LA 70433 |
| Telephone | 1-985-875-9192 |
| Distributor | Rumble Bee Distribution, LLC 3811 Chartres Street New Orleans, Louisiana 70117 United States of America |
| Telephone | 1-877-866-2766 |
| Emergency telephone number | ChemTel (24 hr.): 1-800-255-3924 |

SECTION 2: HAZARDS IDENTIFICATION

Classification of the substance or mixture

OSHA HCS (29 CFR 1910.1200) Flam. Liq. 3; Acute Tox. 4; Skin Irrit. 2; Eye Dam. 1; STOT SE 1; STOT SE 3

Label elements

Hazard Symbol



Signal Word(s)

DANGER

Hazard Statement(s)

H226: Flammable liquid and vapor.
H302: Harmful if swallowed.
H315: Causes skin irritation.
H318: Causes serious eye damage.
H335: May cause respiratory irritation.
H336: May cause drowsiness or dizziness.
H370: Causes damage to organs: Optic nerve (nervus opticus), central nervous system



Helix 5-in-1

Precautionary Statement(s)

Prevention

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P242: Use only non-sparking tools.
 P243: Take precautionary measures against static discharge.
 P240: Ground/bond container and receiving equipment.
 P241: Use explosion-proof electrical/ventilating/lighting/equipment.
 P280: Wear protective gloves/protective clothing/eye protection/face protection.
 P260: Do not breathe dust/fume/gas/mist/vapours/spray.
 P264: Wash (hands and exposed skin) thoroughly after handling.
 P272: Contaminated work clothing should not be allowed out of the workplace.
 P270: Do not eat, drink or smoke when using this product.

Response

P303 + P361 + P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P333+P313: If skin irritation or rash occurs: Get medical advice/attention. P363: Wash contaminated clothing before reuse.
 P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P315: Get immediate medical advice/attention.
 P301+P312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Treat symptomatically.
 P304 + P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing. If breathing is laboured, administer oxygen. If symptoms persist, obtain medical attention.

Storage

P403+P233: Store in a well-ventilated place. Keep container tightly closed.

Disposal

P501: Disposal should be in accordance with local, state or national legislation.

Other hazards

None

Additional Information

None

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

| Composition/information on ingredients | %W/W | CAS No. | Hazard Statement(s) |
|--|------|----------|---|
| 2-butoxyethanol | < 40 | 111-76-2 | Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Flam. Liq. 4; H227 |
| Butan-1-ol | < 40 | 71-36-3 | Skin Irrit. 2; H315 Eye Dam. 1; H318 STOT SE 3; H335, H336 Flam. Liq. 3; H226 |
| Methanol | < 20 | 67-56-1 | Acute Tox. 3; H301, H311, H331 STOT SE 1; H370 Flam. Liq. 2; H225 |
| Morpholine | < 10 | 110-91-8 | Acute Tox. 3; H311 Acute Tox. 4; H302 Skin Corr. 1A; H314 Eye Dam. 1; H318 Flam. Liq. 3; H226 |



Helix 5-in-1

For full text of H phrases see section 16.

Additional Information - None

SECTION 4: FIRST AID MEASURES



Description of first aid measures

| | |
|---|---|
| Inhalation | Remove victim to fresh air and keep at rest in a position comfortable for breathing. If breathing is labored, administer oxygen. If symptoms persist, obtain medical attention. |
| Skin Contact | Take off immediately all contaminated clothing. Rinse skin with water/shower. If irritation (redness, rash, blistering) develops, get medical attention. Wash contaminated clothing before reuse. |
| Eye Contact | Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention. |
| Ingestion | Call a POISON CENTER or doctor/physician if you feel unwell. Treat symptomatically. |
| Most important symptoms and effects, both acute and delayed | May cause an allergic skin reaction. |
| Indication of any immediate medical attention and special treatment needed | None anticipated. |

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing Media

| | |
|---------------------------------|--|
| -Suitable Extinguishing Media | Extinguish with water spray, dry chemical, sand or carbon dioxide. |
| -Unsuitable Extinguishing Media | None anticipated. |

Special hazards arising from the substance or mixture

None anticipated.

Advice for fire-fighters

Fire fighters should wear complete protective clothing including self-contained breathing apparatus.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Eliminate all ignition sources if safe to do so. Put on protective equipment before entering danger area. Wear protective gloves/protective clothing/eye protection/face protection. In case of inadequate ventilation wear respiratory protection.

Environmental precautions

Contain spillages with sand, earth or any suitable adsorbent material. Do not allow to enter drains, sewers or watercourses.

Methods and material for containment and cleaning up

Contain spillages with sand, earth or any suitable adsorbent material. Transfer to a container for disposal or recovery. Wash the spillage area with water. If possible prevent water running into sewers.



Helix 5-in-1

Reference to other sections
Additional Information

None
None

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use only non-sparking tools. Use explosion-proof electrical / ventilating / lighting / equipment. Take precautionary measures against static discharge. Ground/bond container and receiving equipment. Wear protective gloves/protective clothing/eye protection/face protection. Wash hands and exposed skin after use. Do not breathe dust / fume / gas / mist / vapors / spray. Contaminated work clothing should not be allowed out of the workplace. Work in well ventilated zones or use proper respiratory protection.

Conditions for safe storage, including any incompatibilities

- Storage temperature Store at room temperature. Keep container tightly closed and in a well-ventilated place.
- Incompatible materials Strong oxidising agents.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Occupational Exposure Limits

| SUBSTANCE. | CAS No. | (8hr TWA) | | (STEL) | | Note: |
|-----------------|----------|------------|-------------|------------|-------------|-------|
| | | PEL (OSHA) | TLV (ACGIH) | PEL (OSHA) | TLV (ACGIH) | |
| 2-butoxyethanol | 111-76-2 | 50 ppm | 20 ppm | --- | ---- | skin |
| Butan-1-ol | 71-36-3 | 100 ppm | 20 ppm | --- | --- | --- |
| Methanol | 67-56-1 | 200 ppm | 200 ppm | --- | 250 ppm | skin |
| Morpholine | 110-91-8 | 20 ppm | 20 ppm | --- | ---- | skin |

- STEL: Short Term Exposure Limit

Exposure controls

Appropriate engineering controls

Work in well ventilated zones or use proper respiratory protection.

Personal protection equipment

Eye/face protection



Wear protective eyewear (goggles, face shield, or safety glasses).

Skin protection (Hand protection/ Other)



Gloves. Check with protective equipment manufacturer's data. Gloves should be changed regularly to avoid permeation problems.



Helix 5-in-1

Respiratory protection



In case of inadequate ventilation wear respiratory protection. Air-purifying respirator with organic vapor cartridges may provide sufficient protection. Check with protective equipment manufacturer's data.

Thermal hazards

Not normally required.

Environmental Exposure Controls

Do not allow to enter drains, sewers or watercourses.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

| | |
|--|---------------------------|
| Appearance | Liquid |
| Color | Yellow |
| Odor | Ether-like |
| Odor Threshold (ppm) | 0.011 ppm |
| pH (Value) | Not available |
| Melting Point (°C) / Freezing Point (°C) | Not available |
| Boiling point/boiling range (°C): | 123 (253.5 °F) |
| Flash Point (°C) | 40.5 (105 °F) |
| Evaporation Rate (Butylacetate=1) | 0.41 |
| Flammability (solid, gas) | Not applicable. |
| Explosive Limit Ranges | UEL: 10.6% LEL:1.1 % |
| Vapour pressure (mmHg) | 4.0 |
| Vapour Density (Air=1) | 2.71 |
| Density (g/ml) | 0.85 ± 0.05 (7.09 lb/gal) |
| Specific Gravity | 0.85 ± 0.05 |
| Solubility (Water) | Not available |
| Solubility (Other) | Not available |
| Partition Coefficient (n-Octanol/water) | Not available |
| Auto Ignition Point (°C) | Not available |
| Decomposition Temperature (°C) | Not available |
| Kinematic Viscosity (cSt) | Not available |
| Explosive properties | Not explosive. |
| Oxidizing properties | Not oxidizing. |

Other information

Not available.

SECTION 10: STABILITY AND REACTIVITY

| | |
|---|--|
| Reactivity | Stable under normal conditions. |
| Chemical stability | Stable. |
| Possibility of hazardous reactions | Not to be expected. |
| Conditions to avoid | Incompatible materials. |
| Incompatible materials | Strong oxidising agents. |
| Hazardous decomposition product(s) | Combustion or thermal decomposition will evolve toxic and irritant vapours; acrid smoke. |

SECTION 11: TOXICOLOGICAL INFORMATION

Exposure routes: Inhalation, Skin Contact, Eye Contact



Helix 5-in-1

Methanol (CAS# 67-56-1)

Acute toxicity *

LD50 (oral, monkey): 7000 mg/kg-bw
 LD0 (oral, rat): \geq 2528 mg/kg-bw
 LC50 (inhal., cat, 6-hours): 43.68 mg/L
 LC50 (inhal., monkey, 4-hours): 52 mg/L
 Ingestion may damage the optic nerve.
 May cause dizziness and drowsiness.

**Irritation
 Sensitisation**

May cause eye irritation.
 It is not a skin sensitiser.

**Repeated dose toxicity
 Developmental Toxicity
 Toxicity for reproduction
 Mutagenicity**

NOAEC (2-yr. inhal., mouse): \geq 1.3 mg/L
 Negative. Not a specific developmental toxin.
 Negative. Not a specific reproductive toxin.
 Negative

Carcinogenicity

Not to be expected.

| NTP | IARC | ACGIH | OSHA | NIOSH |
|-----|------|-------|------|-------|
| No. | No. | No. | No. | No. |

Other information

* ATE (oral) = 100 mg/kg
 * ATE (dermal) = 300 mg/kg
 * ATE (inhalation) = 3 mg/L

*ATE = Acute Toxicity Estimate for purposes of classification

2-butoxyethanol (CAS# 111-76-2)

Acute toxicity

Oral: LD50: > 1200 mg/kg (Guinea pig)
 Dermal: LD50: >2000 mg/kg (rat)

**Irritation
 Sensitisation**

Causes irritation to eyes and skin.
 It is not a skin sensitiser.

Repeated dose toxicity

Not to be expected. NOAEL(oral): (91day), rat, male <69 mg/kg/day

**Developmental Toxicity
 Toxicity for reproduction**

Negative. Not a specific developmental toxin.
 Negative. Not a specific reproductive toxin.

Mutagenicity

Negative

Carcinogenicity

Not to be expected.

| NTP | IARC | ACGIH | OSHA | NIOSH |
|-----|------|-------|------|-------|
| No. | No. | No. | No. | No. |

Other information

None

Morpholine (CAS# 110-91-8)

Acute toxicity

Oral: LD50: 1900 mg/kg (Guinea pig)
 Dermal: LD50: 500 mg/kg (rat)

**Irritation
 Sensitisation**

Causes irritation to eyes and skin.
 It is not a skin sensitiser.

Repeated dose toxicity

Not to be expected. NOAEL(oral): (91day), rat, male <69 mg/kg/day

Developmental Toxicity

Negative. Not a specific developmental toxin.



Helix 5-in-1

Toxicity for reproduction Negative. Not a specific reproductive toxin.
Mutagenicity Negative
Carcinogenicity Not to be expected.

| NTP | IARC | ACGIH | OSHA | NIOSH |
|-----|------|-------|------|-------|
| No. | No. | No. | No. | No. |

Other information None

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

Acute toxicity (estimated / calculated) LC50 (96 hour): >100 mg/l (fish)
 EC50 (48 hour): >100 mg/l (Daphnia magna)
 EC50 (72 hour): >100 mg/l (algae)

Long Term Toxicity No data.

Persistence and degradability Readily biodegradable.

Bioaccumulative potential No data.

Mobility in soil The product has high mobility in soil.

Results of PBT and vPvB assessment Not classified as PBT or vPvB.

Other adverse effects None known.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods Disposal should be in accordance with local, state or national legislation. Consult an accredited waste disposal contractor or the local authority for advice.

Additional Information None known.

SECTION 14: TRANSPORT INFORMATION

| | Land transport (U.S. DOT) * | Sea transport (IMDG) | Air transport (ICAO/IATA) |
|-------------------------------------|---|---|---|
| UN number | NA 1993 | UN 1993 | UN 1993 |
| Proper Shipping Name | Combustible liquid, n.o.s. (Contains n-Butyl Alcohol, Methanol), RQ | Flammable liquid, n.o.s. (Contains n-Butyl Alcohol, Methanol) | Flammable liquid, n.o.s. (Contains n-Butyl Alcohol, Methanol) |
| Transport hazard class(es) | Comb. Liq. | 3 | 3 |
| Packing group | III | III | III |
| Hazard label(s) | Combustible Liquid | Flammable Liquid | Flammable Liquid |
| Environmental hazards | Yes * | No | No |
| Special precautions for user | None assigned | None assigned | None assigned |

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable

*Reclassified as a "combustible liquid" according to 49 CFR 173.120 (b)(2). Not regulated for ground shipments in the U.S. in non-bulk packaging (<119 gallons). Contains Reportable Quantity ("RQ") substance.



Helix 5-in-1

SECTION 15: REGULATORY INFORMATION

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

TSCA (Toxic Substance Control Act) - Inventory Status: All components listed or polymer exempt.

Designated Hazardous Substances and Reportable Quantities (40 CFR 302.4):

| Chemical Name | CAS No. | Typical %wt. | RQ (Pounds) |
|---------------|---------|--------------|-------------|
| Methanol | 67-56-1 | < 20 | 5000 |

SARA 311/312 - Hazard Categories:

Fire Sudden Release Reactivity Immediate (acute) Chronic (delayed)

SARA 313 - Toxic Chemicals (40 CFR 372):

| Chemical Name | CAS No. | Typical %wt. |
|---------------|---------|--------------|
| Methanol | 67-56-1 | < 20 |
| Butan-1-ol | 71-36-3 | < 40 |

SARA 302 - Extremely Hazardous Substances(40 CFR 355):

| Chemical Name | CAS No. | Typical %wt. | RQ (Pounds) | TPQ (Pounds) |
|---------------|---------|--------------|-------------|--------------|
| None | ----- | ----- | ----- | ----- |

Proposition 65 (California):

| Chemical Name | CAS No. | Typical %wt. | Hazards |
|---------------|---------|--------------|---------------|
| Methanol | 67-56-1 | < 20 | Developmental |

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 1 - 16.

Date of preparation: February 26, 2016

Hazard Statement(s) Listed in: SECTION 3

- H225: Highly flammable liquid and vapor.
- H226: Flammable liquid and vapour.
- H227: Combustible liquid.
- H301: Toxic if swallowed.
- H302: Harmful if swallowed.
- H311: Toxic in contact with skin.
- H314: Causes severe skin burns and eye damage.
- H315: Causes skin irritation.
- H318: Causes serious eye damage.
- H319: Causes serious eye irritation.
- H226: Flammable liquid and vapour.
- H331: Toxic if inhaled.
- H335: May cause respiratory irritation.
- H336: May cause drowsiness or dizziness.
- H370: Causes damage to organs:

Additional Information: None.

Information contained in this publication or as otherwise supplied to Users is believed to be accurate and is given in good faith, but it is for the Users to satisfy themselves of the suitability of the product for their own particular purpose. Rumble Bee Distribution LLC



Helix 5-in-1

gives no warranty as to the fitness of the product for any particular purpose and any implied warranty or condition (statutory or otherwise) is excluded except to the extent that exclusion is prevented by law. Rumble Bee Distribution LLC accepts no liability for loss or damage (other than that arising from death or personal injury caused by defective product, if proved), resulting from reliance on this information. Freedom under Patents, Copyright and Designs cannot be assumed.