



Krown Quick Shine

Safety Data Sheet

according to the Hazardous Products Regulation (February 11, 2015)

Date of issue: 09/18/2018

Revision date: 09/18/2018

Version: 1.0

SECTION 1: Identification

1.1. Product identifier

Product form : Mixture
Product name : Krown Quick Shine
Other means of identification : MD77

1.2. Recommended use and restrictions on use

Recommended use : Automotive
Restrictions on use : Not determined

1.3. Supplier

Krown Rust Control
35 MAGNUM DRIVE
LOG 1T0 SCHOMBERG - CANADA
T (905) 939-8750

1.4. Emergency telephone number

Emergency number : (905) 939-8750

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

Classification (GHS-CA)

| | |
|--|------|
| Flammable liquids, Category 2 | H225 |
| Skin corrosion/irritation, Category 2 | H315 |
| Serious eye damage/eye irritation, Category 2 | H319 |
| Specific target organ toxicity — Single exposure, Category 3, Narcosis | H336 |

Full text of H statements : see section 16

2.2. GHS Label elements, including precautionary statements

GHS-CA labelling

Hazard pictograms (GHS-CA) :



Signal word (GHS-CA) :

Danger

Hazard statements (GHS-CA) :

H225 - Highly flammable liquid and vapour.
H315 - Causes skin irritation.
H319 - Causes serious eye irritation.
H336 - May cause drowsiness or dizziness.

Precautionary statements (GHS-CA) :

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 - Keep container tightly closed.
P240 - Ground/bond container and receiving equipment.
P241 - Use explosion-proof electrical/ventilating/lighting equipment.
P242 - Use only non-sparking tools.
P243 - Take action to prevent static discharges.
P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.
P264 - Wash hands, forearms and face thoroughly after handling.
P271 - Use only outdoors or in a well-ventilated area.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352 - IF ON SKIN: Wash with plenty of water.
P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water .
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312 - Call a POISON CENTER or doctor if you feel unwell.
P321 - Specific treatment (see supplemental first aid instruction on this label)
P332+P313 - If skin irritation occurs: Get medical advice/attention.
P337+P313 - If eye irritation persists: Get medical advice/attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P370+P378 - In case of fire: Use media other than water to extinguish.

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P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
P403+P235 - Store in a well-ventilated place. Keep cool
P405 - Store locked up.
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation

2.3. Other hazards

Other hazards not contributing to the classification : Repeated or prolonged skin contact may cause dermatitis and defatting.

2.4. Unknown acute toxicity (GHS-CA)

No data available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

| Name | Chemical name / Synonyms | Product identifier | % | Classification (GHS-CA) |
|--|---|----------------------|---------|---|
| n-Heptane | Heptane (n-) / Heptane / Normal heptane / Heptane, n- / HEPTANE | (CAS-No.) 142-82-5 | 30 - 50 | Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 |
| Siloxanes and Silicones, dimethyl, [[3-[(2-aminoethyl)amino]propyl]dimethoxysilyloxy]-terminated | Siloxane, dimethyl, 3-(2-aminoethyl)-aminopropyl dimethoxysilyloxy-terminated / Amodimethicone / AMODIMETHICONE / Aminoethylaminopropyl siloxane/dimethylsiloxane copolymer / Dimethoxysilyl ethylenediaminopropyl dimethicone / Siloxanes and silicones, dimethyl, [[3-[(2-aminoethyl)amino]propyl]dimethoxysilyloxy]-terminated | (CAS-No.) 71750-80-6 | 10 - 30 | Skin Irrit. 2, H315 Eye Irrit. 2, H319 |
| Alkanes, C10-13-iso- | C10-13 Isoparaffin / C10-13 ISOPARAFFIN / Soltrol 130 / Isoalkanes, C10-13 | (CAS-No.) 68551-17-7 | 10 - 20 | Asp. Tox. 1, H304 |

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

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact : Wash skin with plenty of water. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact : Rinse eyes with water as a precaution.
First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.
First-aid measures general : If you feel unwell, seek medical advice (show the label where possible).

4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects : May cause drowsiness or dizziness.
Symptoms/effects after skin contact : Irritation.

4.3. Immediate medical attention and special treatment, if necessary

Other medical advice or treatment : Not applicable.

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

5.2. Unsuitable extinguishing media

Unsuitable extinguishing media : Not determined.

5.3. Specific hazards arising from the hazardous product

Fire hazard : Highly flammable liquid and vapour.

5.4. Special protective equipment and precautions for fire-fighters

Firefighting instructions : Evacuate area. Eliminate all ignition sources if safe to do so. Fight fire from safe distance and protected location.

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Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

No additional information available

6.2. Methods and materials for containment and cleaning up

For containment : Collect spillage.

Methods for cleaning up : Use only explosion-free electrical equipment with earth. In case of large spillages: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Shovel or sweep up and put in a closed container for disposal. Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal. Notify authorities if product enters sewers or public waters.

Other information : Dispose of materials or solid residues at an authorized site.

6.3. 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 : Use only outdoors or in a well-ventilated area. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes. Wear personal protective equipment. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapours may accumulate in the container. Use explosion-proof equipment.

Hygiene measures : Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Ground/bond container and receiving equipment.

Storage conditions : Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep cool.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

| n-Heptane (142-82-5) | | |
|----------------------|-------------------------------|------------------------|
| USA - ACGIH | ACGIH TWA (ppm) | 400 ppm |
| USA - ACGIH | ACGIH STEL (ppm) | 500 ppm |
| Canada (Quebec) | VECD (mg/m ³) | 2050 mg/m ³ |
| Canada (Quebec) | VECD (ppm) | 500 ppm |
| Canada (Quebec) | VEMP (mg/m ³) | 1640 mg/m ³ |
| Canada (Quebec) | VEMP (ppm) | 400 ppm |
| Alberta | OEL STEL (mg/m ³) | 2050 mg/m ³ |
| Alberta | OEL STEL (ppm) | 500 ppm |
| Alberta | OEL TWA (mg/m ³) | 1640 mg/m ³ |
| Alberta | OEL TWA (ppm) | 400 ppm |
| British Columbia | OEL STEL (ppm) | 500 ppm |
| British Columbia | OEL TWA (ppm) | 400 ppm |
| Ontario | OEL STEL (ppm) | 500 ppm |
| Ontario | OEL TWA (ppm) | 400 ppm |

8.2. Appropriate engineering controls

Appropriate engineering controls : Use only explosion-proof equipment. Use non-sparking handtools. Ensure good ventilation of the work station.

Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Wear recommended personal protective equipment.

Hand protection:

Protective gloves

Eye protection:

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Safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|--|--------------------------------|
| Physical state | : Liquid |
| Appearance | : Viscous. Emulsion. |
| Colour | : white |
| Odour | : slight |
| Odour threshold | : No data available |
| pH | : No data available |
| Relative evaporation rate (butylacetate=1) | : 2.8 |
| Relative evaporation rate (ether=1) | : No data available |
| Melting point | : Not applicable |
| Freezing point | : -4 °C |
| Boiling point | : 208 °F |
| Flash point | : 25 °F Closed Cup |
| Auto-ignition temperature | : No data available |
| Decomposition temperature | : No data available |
| Flammability (solid, gas) | : Not applicable |
| Vapour pressure | : No data available |
| Vapour pressure at 50 °C | : No data available |
| Relative density | : 1.001 |
| Solubility | : Moderately soluble in water. |
| Log Pow | : No data available |
| Viscosity, kinematic | : No data available |
| Viscosity, dynamic | : 60 - 1000 cP |
| Explosive limits | : No data available |

9.2. Other information

| | |
|-------------|--------------------------------------|
| VOC content | : 75 % (Calculated per CARB title 2) |
|-------------|--------------------------------------|

SECTION 10: Stability and reactivity

10.1. Reactivity

| | |
|------------------------------------|---|
| Reactivity | : Heating may cause a fire. |
| Chemical stability | : Stable under normal conditions. |
| Possibility of hazardous reactions | : No dangerous reactions known under normal conditions of use. |
| Conditions to avoid | : No flames, no sparks. Eliminate all sources of ignition. |
| Incompatible materials | : Peroxides. Sodium hypochlorite. |
| Hazardous decomposition products | : Under normal conditions of storage and use, hazardous decomposition products should not be produced. On combustion, forms: carbon oxides (CO and CO ₂). |

SECTION 11: Toxicological information

11.1. Information on toxicological effects

| | |
|-----------------------------|------------------|
| Acute toxicity (oral) | : Not classified |
| Acute toxicity (dermal) | : Not classified |
| Acute toxicity (inhalation) | : Not classified |

| n-Heptane (142-82-5) | |
|-------------------------------|---|
| LD50 dermal rabbit | 3000 mg/kg |
| LC50 inhalation rat (mg/l) | 103 g/m ³ (Exposure time: 4 h) |
| Skin corrosion/irritation | : Causes skin irritation. |
| Serious eye damage/irritation | : Causes serious eye irritation. |

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| | |
|-------------------------------------|--------------------------------------|
| Respiratory or skin sensitization | : Not classified |
| Germ cell mutagenicity | : Not classified |
| Carcinogenicity | : Not classified |
| Reproductive toxicity | : Not classified |
| STOT-single exposure | : May cause drowsiness or dizziness. |
| STOT-repeated exposure | : Not classified |
| Aspiration hazard | : Not classified |
| Symptoms/effects | : May cause drowsiness or dizziness. |
| Symptoms/effects after skin contact | : Irritation. |

SECTION 12: Ecological information

12.1. Toxicity

| | |
|--------------------------|---|
| Ecology - general | : Very toxic to aquatic life with long lasting effects. |
| Acute aquatic toxicity | : Not classified |
| Chronic aquatic toxicity | : Not classified |

| n-Heptane (142-82-5) | |
|----------------------|--|
| LC50 fish 1 | 375 mg/l (Exposure time: 96 h - Species: Cichlid fish) |
| Log Pow | 4.66 |

12.2. Persistence and degradability

| Krown Quick Shine | |
|-------------------------------|------------------|
| Persistence and degradability | Not established. |

12.3. Bioaccumulative potential

| Krown Quick Shine | |
|---------------------------|------------------|
| Bioaccumulative potential | Not established. |

| n-Heptane (142-82-5) | |
|----------------------|------|
| Log Pow | 4.66 |

12.4. Mobility in soil

| Krown Quick Shine | |
|-------------------|------------------|
| Ecology - soil | Not established. |

| n-Heptane (142-82-5) | |
|----------------------|------|
| Log Pow | 4.66 |

12.5. Other adverse effects

| | |
|------------------------------|--------------------|
| Ozone | : Not classified |
| Effect on the global warming | : Not established. |

SECTION 13: Disposal considerations

13.1. Disposal methods

| | |
|--|---|
| Waste treatment methods | : Dispose of contents/container in accordance with licensed collector's sorting instructions. |
| Product/Packaging disposal recommendations | : Dispose in a safe manner in accordance with local/national regulations. |
| Additional information | : Flammable vapours may accumulate in the container. |

SECTION 14: Transport information

14.1. Basic shipping description

In accordance with TDG

| Transportation of Dangerous Goods | |
|--|-----------------------------------|
| UN-No. (TDG) | : UN1206 |
| Packing group | : II - Medium Danger |
| TDG Primary Hazard Classes | : 3 - Class 3 - Flammable Liquids |
| Transport document description | : UN1206 HEPTANES, 3, II |
| Proper Shipping Name (Transportation of Dangerous Goods) | : HEPTANES |

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Hazard labels (TDG) : 3 - Flammable liquids



Explosive Limit and Limited Quantity Index : 1 L

Excepted quantities (TDG) : E2

Passenger Carrying Road Vehicle or Passenger : 5 L

Carrying Railway Vehicle Index

Marine pollutant : Yes (IMDG only)



14.2. Transport information/DOT

Department of Transport

DOT NA no. : UN1206

UN-No.(DOT) : 1206

Packing group (DOT) : II - Medium Danger

Transport document description : UN1206 Heptanes, 3, II

Proper Shipping Name (DOT) : Heptanes

Contains Statement Field Selection (DOT) :

Class (DOT) : 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120

Division (DOT) : 3

Hazard labels (DOT) : 3 - Flammable liquid



Dangerous for the environment : Yes

Marine pollutant : Yes



DOT Special Provisions (49 CFR 172.102) : IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized.
T4 - 2.65 178.274(d)(2) Normal..... 178.275(d)(3)
TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = $97 / (1 + a (tr - tf))$ Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling.

DOT Packaging Exceptions (49 CFR 173.xxx) : 150

DOT Packaging Non Bulk (49 CFR 173.xxx) : 202

DOT Packaging Bulk (49 CFR 173.xxx) : 242

DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) : 5 L

DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) : 60 L

DOT Vessel Stowage Location : B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded.

Emergency Response Guide (ERG) Number : 128

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Other information : No supplementary information available.

14.3. Air and sea transport

IMDG

UN-No. (IMDG) : 1206
Proper Shipping Name (IMDG) : HEPTANES
Transport document description (IMDG) : UN 1206 HEPTANES, 3, II, MARINE POLLUTANT
Class (IMDG) : 3 - Flammable liquids
Packing group (IMDG) : II - substances presenting medium danger

IATA

UN-No. (IATA) : 1206
Proper Shipping Name (IATA) : Heptanes
Transport document description (IATA) : UN 1206 Heptanes, 3, II
Class (IATA) : 3 - Flammable Liquids
Packing group (IATA) : II - Medium Danger

SECTION 15: Regulatory information

15.1. National regulations

Alkanes, C10-13-iso- (68551-17-7)

Listed on the Canadian DSL (Domestic Substances List)

n-Heptane (142-82-5)

Listed on the Canadian DSL (Domestic Substances List)

Siloxanes and Silicones, dimethyl, [[[3-[(2-aminoethyl)amino]propyl]dimethoxysilyl]oxy]-terminated (71750-80-6)

Listed on the Canadian DSL (Domestic Substances List)

15.2. International regulations

Alkanes, C10-13-iso- (68551-17-7)

Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
Listed on the Japanese ISHL (Industrial Safety and Health Law)
Listed on the Korean ECL (Existing Chemicals List)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
Listed on Turkish inventory of chemical

n-Heptane (142-82-5)

Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
Listed on the Japanese ISHL (Industrial Safety and Health Law)
Listed on the Korean ECL (Existing Chemicals List)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
Listed on INSQ (Mexican National Inventory of Chemical Substances)
Listed on Turkish inventory of chemical

Siloxanes and Silicones, dimethyl, [[[3-[(2-aminoethyl)amino]propyl]dimethoxysilyl]oxy]-terminated (71750-80-6)

Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
Listed on the Japanese ISHL (Industrial Safety and Health Law)
Listed on the Korean ECL (Existing Chemicals List)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

SECTION 16: Other information

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Other information

: **DISCLAIMER OF LIABILITY** The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.

Full text of H-statements:

| | |
|------|---|
| H225 | Highly flammable liquid and vapour. |
| H304 | May be fatal if swallowed and enters airways. |
| H315 | Causes skin irritation. |
| H319 | Causes serious eye irritation. |
| H336 | May cause drowsiness or dizziness. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |

SDS Canada (GHS)

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