

## SAFEWAY KA HOT BLUE RUNWAY DE-ICER

Page 1

Substance key: 000000161725

Revision Date: 02/06/2020

Version : 3 - 4 / USA

Date of printing :12/04/2020

## SECTION 1. IDENTIFICATION

<b>Identification of the company:</b>	Clariant Corporation 4000 Monroe Road Charlotte, NC, 28205 Telephone No.: +1 704 331 7000
<b>Information of the substance/preparation:</b>	BU Industrial & Consumer Specialties Product Stewardship, +1-704-331-7710
<b>Emergency tel. number:</b>	+1 800-424-9300(CHEMTREC)

**Trade name:** SAFEWAY KA HOT BLUE RUNWAY DE-ICER  
**Material number:** 198176

**Primary product use:** Deicing of roads and surfaces

## SECTION 2. HAZARDS IDENTIFICATION

**GHS classification in accordance with 29 CFR 1910.1200**

Not a hazardous substance or mixture.

**GHS label elements**

Not a hazardous substance or mixture.

**Other hazards**

None known.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Components**

This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

## SECTION 4. FIRST AID MEASURES

- General advice : Remove/ Take off immediately all contaminated clothing. Get medical advice/ attention if you feel unwell.
- If inhaled : If irritation of nose or throat develops from exposure to fumes, move away from source of exposure and into fresh air. If irritation develops, get medical attention.
- In case of skin contact : Wash thoroughly with soap and water for 15 minutes. If skin irritation occurs, seek medical attention.
- In case of eye contact : Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Get medical attention.

## SAFEWAY KA HOT BLUE RUNWAY DE-ICER

Page 2

Substance key: 000000161725

Revision Date: 02/06/2020

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Date of printing : 12/04/2020

- If swallowed : IF SWALLOWED: Immediately call a POISON CENTER/  
doctor.
- Most important symptoms and effects, both acute and delayed : The possible symptoms known are those derived from the labelling (see section 2).  
No additional symptoms are known.
- Notes to physician : None known.

**SECTION 5. FIREFIGHTING MEASURES**

- Suitable extinguishing media : Not combustible.  
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Unsuitable extinguishing media : High volume water jet
- Specific hazards during firefighting : In case of fires, hazardous combustion gases are formed:  
Carbon monoxide (CO)  
Carbon dioxide (CO<sub>2</sub>)
- Further information : Product is non-combustible. Wear breathing apparatus (MSHA/NIOSH-approved, pressure demand, self contained or equivalent) and full protective clothing. Use water spray to cool fire-exposed containers.
- Special protective equipment for firefighters : Wear an approved positive pressure self-contained breathing apparatus in addition to standard fire fighting gear.

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

- Personal precautions, protective equipment and emergency procedures : Refer to protective measures listed in sections 7 and 8.  
Avoid contact with skin, eyes and clothing.  
Wash thoroughly after handling.  
Wearing appropriate personal protective equipment, contain spill, collect onto inert absorbent, and place in a suitable container.
- Environmental precautions : Do not allow contact with soil, surface or ground water.  
Prevent product from entering drains.
- Methods and materials for containment and cleaning up : Rinse with water.

**SECTION 7. HANDLING AND STORAGE**

## SAFEWAY KA HOT BLUE RUNWAY DE-ICER

Page 3

Substance key: 000000161725

Revision Date: 02/06/2020

Version : 3 - 4 / USA

Date of printing : 12/04/2020

- Advice on protection against fire and explosion : Observe the general rules of industrial fire protection
- Advice on safe handling : Do not use zinc containers.
- Conditions for safe storage : Do not use zinc containers.
- Further information on storage conditions : Store in original container.  
Keep container closed.
- Materials to avoid : Do not store near acids.

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**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Components with workplace control parameters**

Contains no substances with occupational exposure limit values.

- Engineering measures** : Local ventilation recommended - mechanical ventilation may be used.

**Personal protective equipment**

- Respiratory protection : If airborne concentrations pose a health hazard, become irritating or exceed recommended limits, use a NIOSH approved respirator in accordance with OSHA respiratory protection requirements under 29 CFR 1910.134
- Hand protection  
Remarks : Butyl Rubber, PVC Or Neoprene.
- Eye protection : Safety glasses or chemical splash goggles.
- Skin and body protection : Protective clothing to minimize skin contact should be worn. Chemically resistant safety shoes. Wash contaminated clothing with soap and water and dry before reuse. Safety showers and eyewash stations should be provided in all areas where this material is handled.
- Protective measures : Avoid contact with skin and eyes.  
Do not inhale aerosol.
- Hygiene measures : Keep away from food and drink.  
Observe the usual precautions for handling chemicals.

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**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

- Appearance : Liquid
- Colour : blue

## SAFEWAY KA HOT BLUE RUNWAY DE-ICER

Page 4

Substance key: 000000161725

Revision Date: 02/06/2020

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Date of printing : 12/04/2020

Odour	:	almost odourless
Odour Threshold	:	not tested.
pH	:	9 - 11.4 (68 °F / 20 °C) Method: ASTM D 1287 Determined in the undiluted form
Freezing point	:	3 °F / -16 °C Method: ASTM D 1177 Measured on 1:1 dilution with water
Boiling point	:	approx. 241 °F / 116 °C (1,013 hPa) Method: ASTM D 1120
Flash point	:	> 212 °F / > 100 °C  Method: DIN 51376
Evaporation rate	:	not tested.
Flammability (solid, gas)	:	Not applicable
Self-ignition	:	The substance or mixture is not classified as self heating.
Burning number	:	Not applicable
Upper explosion limit / upper flammability limit	:	not tested.
Lower explosion limit / Lower flammability limit	:	not tested.
Vapour pressure	:	approx. 20 mbar (68 °F / 20 °C)
Relative vapour density	:	not tested.
Relative density	:	1.281 (68 °F / 20 °C)
Density	:	approx. 1.279 g/cm <sup>3</sup> (68 °F / 20 °C) Method: DIN 51757
Bulk density	:	Not applicable
Solubility(ies)		
Water solubility	:	completely miscible (68 °F / 20 °C)
Solubility in other solvents	:	not tested. Solvent: fat

## SAFEWAY KA HOT BLUE RUNWAY DE-ICER

Page 5

Substance key: 000000161725

Revision Date: 02/06/2020

Version : 3 - 4 / USA

Date of printing :12/04/2020

Partition coefficient: n-octanol/water	:	Not applicable
Auto-ignition temperature	:	> 1022 °F / > 550 °C Method: DIN 51794
Decomposition temperature	:	No decomposition if used as directed. Stable up to boiling point.
Viscosity		
Viscosity, dynamic	:	4 - 6 mPa.s (68 °F / 20 °C) Method: DIN 51562
Viscosity, kinematic	:	not tested.
Explosive properties	:	Not explosive Method: Expert judgement
Oxidizing properties	:	The substance or mixture is not classified as oxidizing. Method: Expert judgement
Metal corrosion rate	:	< 6.25 mm/a
Minimum ignition energy	:	not tested.
Particle size	:	Not applicable

**SECTION 10. STABILITY AND REACTIVITY**

Reactivity	:	No dangerous reaction known under conditions of normal use.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reactions	:	Reactions with acids.
Conditions to avoid	:	None known.
Incompatible materials	:	not known
Hazardous decomposition products	:	When handled and stored appropriately, no dangerous decomposition products are known

**SECTION 11. TOXICOLOGICAL INFORMATION****Information on likely routes of exposure**

None known.

## SAFEWAY KA HOT BLUE RUNWAY DE-ICER

Page 6

Substance key: 000000161725

Revision Date: 02/06/2020

Version : 3 - 4 / USA

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**Acute toxicity****Product:**

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg  
Remarks: Information refers to the main component.

Acute inhalation toxicity : LC50 (Rat, male and female): > 5.6 mg/l  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403  
Remarks: Information refers to the main component.

Acute toxicity estimate: 10.5 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: Calculation method

Acute dermal toxicity : Remarks: not tested.

**Skin corrosion/irritation****Product:**

Species: Rabbit  
Method: OECD Test Guideline 404  
Result: No skin irritation

**Serious eye damage/eye irritation****Product:**

Species: rabbit eye  
Result: No eye irritation  
Method: OECD Test Guideline 405

**Respiratory or skin sensitisation****Product:**

Result: non-sensitizing  
Remarks: Information refers to the main component.

**Germ cell mutagenicity****Product:**

Genotoxicity in vitro : Test Type: Ames test  
Method: OECD Test Guideline 471  
Result: negative

Germ cell mutagenicity - Assessment : It is concluded that the product is not mutagenic based on evaluation of several mutagenicity tests.

Information refers to the main component.

## SAFEWAY KA HOT BLUE RUNWAY DE-ICER

Page 7

Substance key: 000000161725

Revision Date: 02/06/2020

Version : 3 - 4 / USA

Date of printing :12/04/2020

**Carcinogenicity****Product:**

Carcinogenicity - Assessment : No information available.

**IARC**

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**OSHA**

No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

**NTP**

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

**Reproductive toxicity****Product:**

Reproductive toxicity - Assessment : No information available.

**STOT - single exposure****Product:**

Remarks: not tested.

**STOT - repeated exposure****Product:**

Remarks: not tested.

**Repeated dose toxicity****Product:**

NOAEL: 4,307 mg/kg

Method: Subacute oral toxicity

Remarks: Information refers to the main component.

**Experience with human exposure****Product:**

General Information : The possible symptoms known are those derived from the labelling (see section 2).

Substance key: 000000161725

Revision Date: 02/06/2020

Version : 3 - 4 / USA

Date of printing :12/04/2020

**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity****Product:**

- Toxicity to fish : EC50 (Danio rerio (zebra fish)): > 1,000 mg/l  
Exposure time: 96 h  
Method: DIN 38415-6
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 1,000 mg/l  
Exposure time: 48 h  
Method: DIN 38412
- Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l  
End point: Growth rate  
Exposure time: 72 h  
Method: ISO 8692
- Toxicity to microorganisms : EC50 (Pseudomonas putida): > 1,000 mg/l  
Exposure time: 16 h  
Method: DIN 38412 T.8

**Persistence and degradability****Product:**

- Biodegradability : Result: Readily biodegradable.  
Biodegradation: 99 %  
Exposure time: 8 d  
Method: OECD Test Guideline 301E
- Biochemical Oxygen Demand (BOD) : 0.15 kg/kg  
Method: DIN 38409-H51
- Chemical Oxygen Demand (COD) : 0.3 kg/kg  
Method: DIN 38409-H-41

**Bioaccumulative potential****Product:**

- Bioaccumulation : Bioconcentration factor (BCF): 3,162  
Remarks: The bioaccumulation potential of the main component of the mixture is expected to be low.

**Mobility in soil****Product:**

- Distribution among environmental compartments : Remarks: not tested.

**Other adverse effects****Product:**



## SAFEWAY KA HOT BLUE RUNWAY DE-ICER

Page 9

Substance key: 000000161725

Revision Date: 02/06/2020

Version : 3 - 4 / USA

Date of printing :12/04/2020

Environmental fate and pathways	:	Remarks: no data available
Results of PBT and vPvB assessment	:	Taking into account all available toxicity and ecotoxicity data, it can be concluded that the ingredients of the mixture described here do not fulfil the criteria to be classified as either PBT or vPvB.
Additional ecological information	:	May be eliminated in purification plants

**SECTION 13. DISPOSAL CONSIDERATIONS****Disposal methods**

RCRA - Resource Conservation and Recovery Act Waste Code	:	This product, if discarded as sold, is not a Federal RCRA hazardous waste. NONE
Waste from residues	:	Must be incinerated in a suitable incineration plant holding a permit delivered by the competent authorities.
Contaminated packaging	:	Packaging that cannot be cleaned should be disposed of as product waste

**SECTION 14. TRANSPORT INFORMATION**

DOT	not restricted
IATA	not restricted
IMDG	not restricted

**SECTION 15. REGULATORY INFORMATION****EPCRA - Emergency Planning and Community Right-to-Know Act****SARA 304 Extremely Hazardous Substances Reportable Quantity**

This material does not contain any components with a section 304 EHS RQ.

**SARA 302 Extremely Hazardous Substances Threshold Planning Quantity**

This material does not contain any components with a section 302 EHS TPQ.

**SARA 311/312 Hazards** : No SARA Hazards  
No SARA Hazards

**SARA 313** : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Substance key: 000000161725

Revision Date: 02/06/2020

Version : 3 - 4 / USA

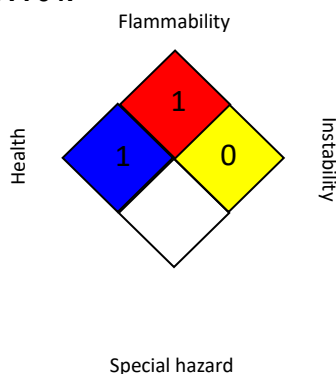
Date of printing :12/04/2020

**Clean Water Act**

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

**The components of this product are reported in the following inventories:**

TSCA : All components are compliant with the TSCA Inventory Notification (Active) rule.

**SECTION 16. OTHER INFORMATION****Further information****NFPA 704:****Full text of other abbreviations**

AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect

## SAFEWAY KA HOT BLUE RUNWAY DE-ICER

Page 11

Substance key: 000000161725

Revision Date: 02/06/2020

Version : 3 - 4 / USA

Date of printing :12/04/2020

Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Observe national and local legal requirements

None known.

Revision Date : 02/06/2020

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