

SAFEWAY SF RUNWAY DE-ICER

Page 1

Substance key: SXR096769	Revision Date: 12/01/2018
Version : 3 - 9 / USA	Date of printing :12/04/2020

SECTION 1. IDENTIFICATION

Identification of the company:	Clariant Corporation 4000 Monroe Road Charlotte, NC, 28205 Telephone No.: +1 704 331 7000		
	Information of the substance/preparation: Product Stewardship, +1-704-331-7710		
	Emergency tel. number: +1 800-424-9300 CHEMTREC		
Trade name: Material number:	SAFEWAY SF RUNWAY DE-ICER 107966		
Synonyms:	Product Has No Synonyms		

Primary product use: De-icing.

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

Hazardous components

	CAS-NO.	Concentration (% w/w)
Disodium metasilicate	6834-92-0	1 - 3

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

SECTION 4. FIRST AID MEASURES

General advice	Remove/Take off immediately all contaminated clothing.	
If inhaled	Move the victim to fresh air. Give oxygen or artificial respiration if needed. Get immediate medical advice/ attention. Never give anything by mouth to an unconscious person.	
In case of skin contact	Wash thoroughly with soap and water for 15 minutes. If s irritation occurs, seek medical attention.	kin
In case of eye contact	Rinse immediately with plenty of water, also under the eye	elids,



SAFEWAY SF RUNWAY DE-ICER

Page 2

Substance key: SXR096769	Revision Date: 12/01/20	18
Version : 3 - 9 / USA	Date of printing :12/04/202	20
	for at least 15 minutes. Get medical attention immediately if irritation develops and persists.	
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	:	Water spray jet Foam
Unsuitable extinguishing media	:	Dry powder Carbon dioxide (CO2) High volume water jet
Specific hazards during firefighting	:	In case of fires, hazardous combustion gases are formed: Carbon monoxide (CO) Carbon dioxide (CO2)
Further information	:	Exercise caution when fighting any chemical fire. Use NIOSH approved self-contained breathing apparatus and full protective clothing.
Special protective equipment for firefighters	:	Self-contained breathing apparatus

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	Avoid dust formation. Wear suitable protective equipment. Wear suitable protective equipment. Collect for disposal. Avoid discharge into sewers, on ground or into any body of water.
Environmental precautions	:	Do not allow to enter drains or waterways
Methods and materials for containment and cleaning up	:	Take up mechanically
		Keep in suitable, closed containers for disposal.



SAFEWAY SF RUNWAY DE-ICER

Page 3

Substance key: SXR096769		Revision Date: 12/01/2018
Version : 3 - 9 / USA		Date of printing :12/04/2020
Advice on protection against fire and explosion	:	not capable of dust explosion
Advice on safe handling	:	Avoid dust formation. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Take measures to prevent the build up of electrostatic charge. Store in a dry place.
Technical measures/Precautions	:	Store in original container. Keep container closed.
Materials to avoid	:	Do not store near acids.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

Hazardous components without workplace control parameters

Tiazaidous components witho	ut workplace control parameters	
Components	CAS-No.	
Disodium metasilicate	6834-92-0	
Engineering measures :	Local ventilation recommended - mechanical ventilation may be used.	
Personal protective equipmen	t	
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	
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 :	Do not breathe dust. Avoid contact with skin and eyes.	
Hygiene measures :	When using do not eat or drink. Wash hands before breaks and at the end of workday.	



SAFEWAY SF RUNWAY DE-ICER

Page 4

Substance key: SXR096769	Revision Date: 12/01/2018
Version : 3 - 9 / USA	Date of printing :12/04/2020

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	solid
Colour	:	white
Odour	:	characteristic
Odour Threshold	:	not tested.
рН	:	approx. 11.5 (20 °C) Concentration: 50 g/l Method: DIN 19268
Melting point	:	approx. 260 °C
Boiling point	:	Not applicable
Flash point	:	Not applicable
Evaporation rate	:	Not applicable
Flammability (solid, gas)	:	not determined
Self-ignition	:	> 310 °C Method: VDI 2263 (Grewer)
Burning number	:	2 Short flaring up without spreading
Upper explosion limit / upper flammability limit	:	Not applicable
Lower explosion limit / Lower flammability limit	:	Not applicable
Vapour pressure	:	not tested.
Relative vapour density	:	Not applicable
Density	:	not tested.
Bulk density	:	941 kg/m3Method: DIN 53466
Solubility(ies) Water solubility	:	approx. 690 g/l (22 °C)
Solubility in other solvents	:	not tested. Solvent: fat
Partition coefficient: n- octanol/water	:	Not applicable



SAFEWAY SF RUNWAY DE-ICER

Page 5

Substance key: SXR096769		Revision Date: 12/01/2018
Version : 3 - 9 / USA		Date of printing :12/04/2020
Auto-ignition temperature	: Not applicable	
Decomposition temperature	: > 250 °C	
Viscosity Viscosity, dynamic	: Not applicable	
Viscosity, kinematic	: not tested.	
Explosive properties	: no data available	
Oxidizing properties	: Not applicable	
Metal corrosion rate	: < 6.25 mm/a	
Minimum ignition energy	: not tested.	
Particle size	: not tested.	

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. Stable
Conditions to avoid	:	Acidic materials.
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				
Skin contact				
Eye contact Acute toxicity				
2				
<u>Product:</u>				
Acute oral toxicity	: LD50 (Mouse): > 2,000 mg/kg Remarks: Information refers to the main component.			
Acute inhalation toxicity	: Remarks: not tested.			
Acute dermal toxicity	: Remarks: not tested.			



SAFEWAY SF RUNWAY DE-ICER

Page 6

Substance key: SXR096769	Revision Date: 12/01/2018
Version : 3 - 9 / USA	Date of printing :12/04/2020
Components:	
Disodium metasilicate:	
Acute oral toxicity	: LD50 (Rat, male and female): 995 - 1,530 mg/kg Method: Other GLP: no
Acute inhalation toxicity	 LC50 (Rat, male and female): > 2.06 mg/l Exposure time: 4 h Method: OPPTS 870.1300 GLP: yes Remarks: By analogy with a product of similar composition
Acute dermal toxicity	 LD50 (Rat, male and female): > 5,000 mg/kg Method: OPPTS 870.1200 GLP: yes Remarks: By analogy with a product of similar composition

Skin corrosion/irritation

Product:

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

Components:

Disodium metasilicate:

Species: Rabbit Exposure time: 4 h Method: OECD Test Guideline 404 Result: Skin irritation GLP: yes

Serious eye damage/eye irritation

Product:

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

Components:

Disodium metasilicate:

Result: Risk of serious damage to eyes. Remarks: evaluation based on the high pH-value

CLARIANT

SAFEWAY SF RUNWAY DE-ICER

Page 7

Substance key: SXR096769	Revision Date: 12/01/2018
Version : 3 - 9 / USA	Date of printing :12/04/2020

Respiratory or skin sensitisation

Product:

Remarks: not tested.

Components:

Disodium metasilicate:

Test Type: Mouse local lymphnode assay Exposure routes: Dermal Species: Mouse Method: OECD Test Guideline 429 Result: non-sensitizing GLP: No information available.

Germ cell mutagenicity

Product:

Germ cell mutagenicity -	:	No information available.
Assessment		

Components:

Disodium metasilicate:	
Genotoxicity in vitro :	Test Type: Ames test Test system: Salmonella typhimurium Concentration: 10 - 5000 Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative GLP: yes
	Test Type: Chromosome aberration test in vitro Test system: V79 cells (embryonic lung fibroblasts) of the Chinese hamster Concentration: 19,5 - 156,3 μ g/ml Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 473 Result: negative GLP: yes Remarks: By analogy with a product of similar composition
	Test Type: In vitro gene mutation study in mammalian cells Test system: V79 cells (embryonic lung fibroblasts) of the Chinese hamster Concentration: 28,1 - 1800 µg/ml Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 476 Result: negative GLP: yes Remarks: By analogy with a product of similar composition
Genotoxicity in vivo :	Test Type: Chromosome Aberration Test



SAFEWAY SF RUNWAY DE-ICER

Page 8

ostance key: SXR096769	Revision Date: 12/01/201
rsion : 3 - 9 / USA	Date of printing :12/04/202
	Species: Mouse (male) Cell type: Bone marrow Application Route: oral (feed) Exposure time: 24 h Dose: 740 - 1340 mg/kg Method: OECD Test Guideline 475 Result: negative GLP: no
Germ cell mutagenicity - Assessment	: It is concluded that the product is not mutagenic based on evaluation of several mutagenicity tests.
Carcinogenicity	
Product:	
Carcinogenicity - Assessment	: No information available.
Components:	
Disodium metasilicate:	
Carcinogenicity - Assessment	: Not classifiable as a human carcinogen.
IARC	Not listed
OSHA	Not listed
NTP	Not listed
Reproductive toxicity	
Product: Reproductive toxicity - Assessment	: No information available.
	No information available.
Components:	
Disodium metasilicate: Effects on fertility	 Species: Rat, male and female Strain: Sprague-Dawley Application Route: Drinking water Dose: 79 - 159 mg/kg General Toxicity - Parent: NOAEL: > 159 mg/kg body weight Method: Other GLP: no Remarks: By analogy with a product of similar composition
Effects on foetal	: Species: Mouse, male and female

CLARIANT

SAFEWAY SF RUNWAY DE-ICER

Page 9

ubatanaa kay: SYB006760		Revision Date: 12/01/201
ubstance key: SXR096769 ersion : 3 - 9 / USA		Date of printing :12/04/202
	Dose: 12.5 - 50 - 200 mg/kg General Toxicity Maternal: No	OAEL: 12.5 mg/kg body weight
	Teratogenicity: NOAEL: > 200 Method: Other GLP: no	
Reproductive toxicity - Assessment	No reproductive toxicity to be No teratogenic effects to be e	
STOT - single exposure		
Product:		
Remarks: not tested.		
Components:		
Disodium metasilicate:		
Assessment: May cause respire	atory irritation.	
STOT - repeated exposure		
Product:		
Remarks: not tested.		
Components:		
Disodium metasilicate:		
Assessment: The substance or repeated exposure.	mixture is not classified as spec	ific target organ toxicant,
Repeated dose toxicity		
Product:		
Remarks: not tested.		
Components:		
Disodium metasilicate:		
Species: Rat, male and female NOAEL: > 227 - 237 mg/kg Application Route: Drinking wat Exposure time: 3 m	er	
Number of exposures: daily Dose: 200 - 600 - 1800 ppm Group: yes Method: OECD Test Guideline 4 GLP: no	408	
Application Route: Inhalation Remarks: not tested.		

Application Route: Skin contact



SAFEWAY SF RUNWAY DE-ICER

Page 10

ubstance key: SXR096769		Revision Date: 12/01/2018
ersion : 3 - 9 / USA		Date of printing :12/04/2020
Remarks: not tested.		
Aspiration toxicity		
Product:		
no data available		
Components:		
Disodium metasilicate:		
No aspiration toxicity classific	atio	n
Experience with human exp	osu	ıre
Product:		
General Information	:	The possible symptoms known are those derived from the labelling (see section 2).
CTION 12. ECOLOGICAL INFO	ORN	ΛΑΤΙΟΝ
Ecotoxicity		
Product:		
Toxicity to fish	:	LC50 (Danio rerio (zebra fish)): 8,226 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	:	(Daphnia magna (Water flea)): > 1,000 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
Toxicity to algae	:	EC50 (Desmodesmus subspicatus (green algae)): > 1,000 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
Toxicity to microorganisms	:	EC50 (Pseudomonas putida): 6,165 mg/l Method: ISO/DIS 10712.2 (Ref 3)
Components:		
Disodium metasilicate:		
Toxicity to fish	:	LC50 (Gambusia affinis (Mosquito fish)): 2,320 mg/l Exposure time: 96 h Test Type: static test Analytical monitoring: no data available Method: Other GLP: no
		LC50 (Brachydanio rerio (zebrafish)): 210 mg/l Exposure time: 96 h



SAFEWAY SF RUNWAY DE-ICER

Page 11

bstance key: SXR096769		Revision Date: 12/01/2018
rsion : 3 - 9 / USA		Date of printing :12/04/2020
		Test Type: semi-static test Analytical monitoring: no Method: ISO 7346/1 GLP: no
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 1,700 mg/l Exposure time: 48 h Test Type: static test Analytical monitoring: no data available Method: OECD Test Guideline 202 GLP: yes Remarks: By analogy with a product of similar composition
Toxicity to algae	:	EC50 (Desmodesmus subspicatus (green algae)): > 345.4 mg/l End point: Growth rate Exposure time: 72 h Analytical monitoring: no data available Method: DIN 38412 GLP: yes Remarks: By analogy with a product of similar composition
Toxicity to fish (Chronic toxicity)	:	Remarks: not reasonable
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	Remarks: not reasonable
Toxicity to microorganisms	:	EC50 (activated sludge, domestic): > 100 mg/l Exposure time: 3 h Test Type: aquatic Analytical monitoring: no Method: OECD Test Guideline 209 GLP: yes
Toxicity to soil dwelling organisms	:	Remarks: Not applicable
Plant toxicity	:	Remarks: Not applicable
Sediment toxicity	:	Remarks: Not applicable
Toxicity to terrestrial organisms	:	Remarks: Not applicable
Persistence and degradabilit	t y	
Product:		
Biodegradability	:	Biodegradation: 93 % Exposure time: 28 d Method: OECD Test Guideline 301B Remarks: Readily biodegradable, according to appropriate

Remarks: Readily biodegradable, according to appropriate



SAFEWAY SF RUNWAY DE-ICER

Page 12

stance key: SXR096769 sion : 3 - 9 / USA		Revision Date: 12/01/ Date of printing :12/04/
		OECD test.
Biochemical Oxygen Demand (BOD)	:	0.016 kg/kg Method: DIN 38409-H51
Chemical Oxygen Demand (COD)	:	0.240 kg/kg Method: DIN 38409-H-41
Components:		
Disodium metasilicate:		
Biodegradability	:	Remarks: The methods for determining the biological degradability are not applicable to inorganic substances.
Physico-chemical removability	:	Remarks: Inorganic product, cannot be eliminated from th water by biological purification processes.
Bioaccumulative potential		
Product:		
Bioaccumulation	:	Remarks: not tested.
Components:		
Disodium metasilicate:		
Bioaccumulation	:	Method: Other GLP: no Remarks: Does not accumulate in organisms.
Mobility in soil		
Product:		
Distribution among environmental compartments	:	Remarks: not tested.
Components:		
Disodium metasilicate:		
Distribution among environmental compartments	:	Remarks: Not applicable
Other adverse effects		
Product:		
Environmental fate and pathways	:	Remarks: no data available
Additional ecological information	:	no data available



SAFEWAY SF RUNWAY DE-ICER

Page 13

Substance key: SXR096769		Revision Date: 12/01/2018
Version : 3 - 9 / USA		Date of printing :12/04/2020
Components:		
Disodium metasilicate:		
Environmental fate and pathways	:	not available
Results of PBT and vPvB assessment	:	Remarks: Not applicable
Additional ecological information	:	Do not allow to enter ground water, waterways or waste water.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods		
RCRA - Resource Conservation and Recovery Authorization Act	:	No Not as sold.
Waste Code	:	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
ΙΑΤΑ	not restricted
IMDG	not restricted

SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

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



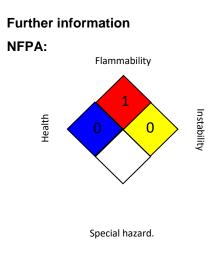
SAFEWAY SF RUNWAY DE-ICER

Page 14

Substance key: SXR096769	Revision Date: 12/01/2018
Version : 3 - 9 / USA	Date of printing :12/04/2020
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.
Clean Water Act	
Contains no known priority poll	utants at concentrations greater than 0.1%.
The components of this prod	luct are reported in the following inventories:
TSCA	: On TSCA Inventory, All components are compliant with the

TSCA Inventory Notification (Active) rule.

SECTION 16. OTHER INFORMATION



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



SAFEWAY SF RUNWAY DE-ICER

Page 15

Substance key: SXR096769	Revision Date: 12/01/2018
Version : 3 - 9 / USA	Date of printing :12/04/2020

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 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

Revision Date : 12/01/2018

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