



The following SDS references the products below:

Johnsen's Radiator Flush 12 Fl. Oz.

Vendor Item Number: 4917

Manufactured By: Technical Chemical Co.

*Distributed by Kimball Midwest with the KM
product identification number:*

80-1569



JOHNSEN'S RADIATOR FLUSH 12 FL.OZ.

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Issue date: 04/06/2023

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Version: 1.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Mixture
Trade name : JOHNSEN'S RADIATOR FLUSH 12 FL.OZ.
Product code : 4917

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

Use of the substance/mixture : Radiator Conditioner and Cleaner

1.3. Details of the supplier of the safety data sheet

Technical Chemical Company
P.O. BOX 139
Cleburne, Texas 76033
T 817-645-6088

1.4. Emergency telephone number

Emergency number : CHEMTREC 24 Hour 1-800-424-9300, 1-703-527-3887 (International)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GHS US classification

Skin corrosion/irritation Category 2 H315 Causes skin irritation
Serious eye damage/eye irritation Category 2 H319 Causes serious eye irritation
Skin sensitization, Category 1 H317 May cause an allergic skin reaction

Full text of H- and EUH-statements: see section 16

2.2. Label elements

GHS US labeling

Hazard pictograms (GHS US) :



Signal word (GHS US) :

Warning

Hazard statements (GHS US) :

H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H319 - Causes serious eye irritation

Precautionary statements (GHS US) :

P261 - Avoid breathing dust, fume, gas, mist, vapor spray
P264 - Wash affected areas thoroughly after handling
P272 - Contaminated work clothing must not be allowed out of the workplace.
P280 - Wear protective gloves, protective clothing, eye protection, face protection
P302+P352 - If on skin: Wash with plenty of soap and water
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P321 - Specific treatment: See section 4.1 on SDS
P332+P313 - If skin irritation occurs: Get medical advice/attention.
P333+P313 - If skin irritation or rash 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.
P363 - Wash contaminated clothing before reuse.
P501 - Dispose of contents/container to appropriate waste disposal facility, in accordance with local, regional, national, international regulations.

2.3. Other hazards

Other hazards which do not result in classification : None under normal conditions.

2.4. Unknown acute toxicity (GHS US)

No data available

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

JOHNSEN'S RADIATOR FLUSH 12 FL.OZ.

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Name	Product identifier	%	GHS US classification
Water	(CAS-No.) 7732-18-5	85 – 95	Not classified
Sodium Dihydrogen Orthophosphate, Monohydrate	(CAS-No.) 10049-21-5	1 – 5	Not classified
Sodium Hydroxide, Conc=50%, Aqueous Solution	(CAS-No.) 1310-73-2	1 – 5	Acute Tox. 4 (Dermal), H312 Skin Corr. 1A, H314 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Acute 2, H401
Sodium-2(3H)-Benzothiazolethione, Conc=50%, Aqueous Solution	(CAS-No.) 2492-26-4	0.98 – 1.02	Met. Corr. 1, H290 Skin Corr. 1A, H314 Skin Sens. 1, H317
Sodium Nitrate	(CAS-No.) 7631-99-4	< 1	Ox. Sol. 3, H272
Disodium Metasilicate, Pentahydrate	(CAS-No.) 10213-79-3	< 1	Acute Tox. 4 (Oral), H302 Skin Corr. 1C, H314 STOT SE 3, H335
Disodium Tetraborate, Decahydrate	(CAS-No.) 1303-96-4	< 1	Not classified
Pluronic L-61 Surfactant	(CAS-No.) Proprietary	< 1	Not classified

SECTION 4: First aid measures

4.1. Description of first aid measures

- First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
- First-aid measures after inhalation : Allow affected person to breathe fresh air. Allow the victim to rest.
- First-aid measures after skin contact : Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention.
- First-aid measures after eye contact : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists.
- First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

4.2. Most important symptoms and effects, both acute and delayed

- Symptoms/effects : If you feel unwell, seek medical advice.
- Symptoms/effects after inhalation : May cause respiratory irritation. May cause an allergic skin reaction.
- Symptoms/effects after skin contact : Itching. Red skin. Skin rash/inflammation. Causes skin irritation.
- Symptoms/effects after eye contact : Irritation of the eye tissue. Inflammation/damage of the eye tissue. Redness of the eye tissue.
- Symptoms/effects after ingestion : May be harmful if swallowed and enters airways.

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.
- Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

5.3. Advice for firefighters

- Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
- Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Remove ignition sources.

6.1.1. For non-emergency personnel

- Protective equipment : Gloves. Safety glasses.
- Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

- Protective equipment : Equip cleanup crew with proper protection.
- Emergency procedures : Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

JOHNSEN'S RADIATOR FLUSH 12 FL.OZ.

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

6.3. Methods and material for containment and cleaning up

- For containment : Dam up the liquid spill. Plug the leak, cut off the supply. Contain released product, collect/pump into suitable containers.
- Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Avoid breathing dust, fume, gas, mist, vapor spray.
- Hygiene measures : Do not eat, drink or smoke when using this product. Remove contaminated clothes. Separate working clothes from town clothes. Launder separately. Wash affected areas thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

- Technical measures : Proper grounding procedures to avoid static electricity should be followed. Comply with applicable regulations.
- Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Keep container closed when not in use.
- Incompatible products : Strong bases. Strong acids.
- Incompatible materials : Sources of ignition. Direct sunlight.

7.3. Specific end use(s)

Follow Label Directions.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

JOHNSEN'S RADIATOR FLUSH 12 FL.OZ.	
No additional information available	
Water (7732-18-5)	
No additional information available	
Pluronic L-61 Surfactant (Proprietary)	
No additional information available	
Sodium Hydroxide, Conc=50%, Aqueous Solution (1310-73-2)	
No additional information available	
Sodium-2(3H)-Benzothiazolethione, Conc=50%, Aqueous Solution (2492-26-4)	
No additional information available	
Disodium Metasilicate, Pentahydrate (10213-79-3)	
No additional information available	
Disodium Tetraborate, Decahydrate (1303-96-4)	
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA	2 mg/m ³ (Inhalable fraction)
ACGIH OEL STEL	6 mg/m ³ (Inhalable fraction)
Sodium Nitrate (7631-99-4)	
No additional information available	
Sodium Dihydrogen Orthophosphate, Monohydrate (10049-21-5)	
No additional information available	

8.2. Appropriate engineering controls

- Appropriate engineering controls : Local exhaust ventilation, vent hoods . 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:

Gloves. Safety glasses. Avoid all unnecessary exposure.

JOHNSEN'S RADIATOR FLUSH 12 FL.OZ.

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Materials for protective clothing:

Excellent resistance:

Hand protection:

Wear protective gloves

Eye protection:

Chemical goggles or safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

Wear appropriate mask

Personal protective equipment symbol(s):



Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Liquid.
Color	: Colourless to light yellow.
Odor	: Mild . Characteristic. Bland.
Odor threshold	: No data available
pH	: 10.8 – 11.2
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: 100 °C
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability	: No data available
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: 1.03
Solubility	: Soluble in water.
Partition coefficient n-octanol/water (Log Pow)	: No data available
Partition coefficient n-octanol/water (Log Kow)	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Explosion limits	: No data available

9.2. Other information

VOC content : 0 %

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Not established.

JOHNSEN'S RADIATOR FLUSH 12 FL.OZ.

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

Toxic fume. . Carbon monoxide. Carbon dioxide.

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

Sodium Hydroxide, Conc=50%, Aqueous Solution (1310-73-2)	
ATE US (dermal)	1100 mg/kg body weight
Sodium-2(3H)-Benzothiazolethione, Conc=50%, Aqueous Solution (2492-26-4)	
LD50 oral rat	5200 mg/kg
LD50 dermal rabbit	5010 mg/kg
ATE US (oral)	5200 mg/kg body weight
ATE US (dermal)	5010 mg/kg body weight
Disodium Metasilicate, Pentahydrate (10213-79-3)	
LD50 oral rat	1152 – 1349 mg/kg body weight (Rat, Experimental value of similar product, Anhydrous form, Oral, 7 day(s))
LD50 dermal rat	> 5000 mg/kg body weight (EPA OPPTS 870.1200: Acute Dermal Toxicity, 24 h, Rat, Male / female, Experimental value of similar product, Anhydrous form, Skin, 14 day(s))
ATE US (oral)	1152 mg/kg body weight
Disodium Tetraborate, Decahydrate (1303-96-4)	
LD50 oral rat	> 2500 mg/kg body weight (OECD 401: Acute Oral Toxicity, Rat, Male, Experimental value, Anhydrous form, Oral, 14 day(s))
LD50 dermal rabbit	> 2000 mg/kg body weight (FIFRA (40 CFR), 24 h, Rabbit, Male / female, Experimental value, Hydrate form, Dermal, 14 day(s))
LC50 Inhalation - Rat	> 2.04 mg/l (OECD 403: Acute Inhalation Toxicity, 4 h, Rat, Male / female, Experimental value, Hydrate form, Inhalation (dust), 14 day(s))
Sodium Nitrate (7631-99-4)	
LD50 oral rat	3430 mg/kg body weight (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value, Oral, 14 day(s))
LD50 dermal rat	> 5000 mg/kg body weight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Experimental value, Dermal, 14 day(s))
ATE US (oral)	3430 mg/kg body weight
Sodium Dihydrogen Orthophosphate, Monohydrate (10049-21-5)	
LD50 oral rat	8290 mg/kg (Rat, Oral)
LD50 dermal rabbit	> 5000 mg/kg (Rabbit, Dermal)
ATE US (oral)	8290 mg/kg body weight
Skin corrosion/irritation	: Causes skin irritation. pH: 10.8 – 11.2
Serious eye damage/irritation	: Causes serious eye irritation. pH: 10.8 – 11.2
Respiratory or skin sensitization	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
Sodium Hydroxide, Conc=50%, Aqueous Solution (1310-73-2)	
STOT-single exposure	May cause respiratory irritation.

JOHNSEN'S RADIATOR FLUSH 12 FL.OZ.

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Disodium Metasilicate, Pentahydrate (10213-79-3)	
STOT-single exposure	May cause respiratory irritation.
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
Viscosity, kinematic	: No data available
Potential Adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.
Symptoms/effects	: If you feel unwell, seek medical advice.
Symptoms/effects after inhalation	: May cause respiratory irritation. May cause an allergic skin reaction.
Symptoms/effects after skin contact	: Itching. Red skin. Skin rash/inflammation. Causes skin irritation.
Symptoms/effects after eye contact	: Irritation of the eye tissue. Inflammation/damage of the eye tissue. Redness of the eye tissue.
Symptoms/effects after ingestion	: May be harmful if swallowed and enters airways.

SECTION 12: Ecological information

12.1. Toxicity

Disodium Metasilicate, Pentahydrate (10213-79-3)	
LC50 - Fish [1]	210 mg/l (96 h, Brachydanio rerio, Literature study, Anhydrous form)
EC50 - Crustacea [1]	216 mg/l (96 h, Daphnia magna, Literature study, Anhydrous form)
Disodium Tetraborate, Decahydrate (1303-96-4)	
LC50 - Fish [1]	79.7 mg/l (ASTM E729-95: Standard Guide for Conducting Acute Toxicity Tests on Test Materials with Fishes, Macroinvertebrates and Amphibians, 96 h, Pimephales promelas, Static system, Fresh water, Experimental value, Boron)
Sodium Nitrate (7631-99-4)	
LC50 - Fish [1]	> 100 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Oncorhynchus mykiss, Static system, Fresh water, Experimental value, GLP)
EC50 - Crustacea [1]	8609 mg/l (Equivalent or similar to OECD 202, 24 h, Daphnia magna, Static system, Fresh water, Experimental value, Locomotor effect)
Sodium Dihydrogen Orthophosphate, Monohydrate (10049-21-5)	
LC50 - Fish [1]	> 2400 mg/l (48 h, Leuciscus idus, Anhydrous form)

12.2. Persistence and degradability

JOHNSEN'S RADIATOR FLUSH 12 FL.OZ.	
Persistence and degradability	Not established.
Water (7732-18-5)	
Persistence and degradability	Not established.
Pluronic L-61 Surfactant (Proprietary)	
Persistence and degradability	Biodegradability in water: no data available.
Sodium Hydroxide, Conc=50%, Aqueous Solution (1310-73-2)	
Persistence and degradability	Not established.
Sodium-2(3H)-Benzothiazolethione, Conc=50%, Aqueous Solution (2492-26-4)	
Persistence and degradability	Not established.
Disodium Metasilicate, Pentahydrate (10213-79-3)	
Persistence and degradability	Biodegradability: not applicable.
Chemical oxygen demand (COD)	Not applicable (inorganic)
ThOD	Not applicable (inorganic)
Disodium Tetraborate, Decahydrate (1303-96-4)	
Persistence and degradability	Biodegradability: not applicable.
Chemical oxygen demand (COD)	Not applicable (inorganic)
ThOD	Not applicable (inorganic)
Sodium Nitrate (7631-99-4)	
Persistence and degradability	Biodegradability: not applicable. Not established.
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable
Sodium Dihydrogen Orthophosphate, Monohydrate (10049-21-5)	
Persistence and degradability	Biodegradability: not applicable.
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable

JOHNSEN'S RADIATOR FLUSH 12 FL.OZ.

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Sodium Dihydrogen Orthophosphate, Monohydrate (10049-21-5)

BOD (% of ThOD)	Not applicable
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12.3. Bioaccumulative potential

JOHNSEN'S RADIATOR FLUSH 12 FL.OZ.

Bioaccumulative potential	Not established.
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Water (7732-18-5)

Bioaccumulative potential	Not established.
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Pluronic L-61 Surfactant (Proprietary)

Bioaccumulative potential	No bioaccumulation data available.
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Sodium Hydroxide, Conc=50%, Aqueous Solution (1310-73-2)

Bioaccumulative potential	Not established.
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Sodium-2(3H)-Benzothiazolethione, Conc=50%, Aqueous Solution (2492-26-4)

Partition coefficient n-octanol/water (Log Pow)	-0.46
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Bioaccumulative potential	Not bioaccumulative.
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Disodium Metasilicate, Pentahydrate (10213-79-3)

Bioaccumulative potential	No bioaccumulation data available.
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Disodium Tetraborate, Decahydrate (1303-96-4)

Bioaccumulative potential	Not bioaccumulative.
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Sodium Nitrate (7631-99-4)

Partition coefficient n-octanol/water (Log Pow)	-3.8
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Bioaccumulative potential	Not bioaccumulative. Not established.
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Sodium Dihydrogen Orthophosphate, Monohydrate (10049-21-5)

Bioaccumulative potential	No bioaccumulation data available.
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12.4. Mobility in soil

Sodium Hydroxide, Conc=50%, Aqueous Solution (1310-73-2)

Ecology - soil	No (test)data on mobility of the component(s) available.
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Sodium-2(3H)-Benzothiazolethione, Conc=50%, Aqueous Solution (2492-26-4)

Ecology - soil	No (test)data on mobility of the component(s) available.
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Disodium Metasilicate, Pentahydrate (10213-79-3)

Surface tension	No data available in the literature
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Ecology - soil	No (test)data on mobility of the substance available.
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Disodium Tetraborate, Decahydrate (1303-96-4)

Surface tension	71 mN/m (23 °C, Hydrate form, 0.3 g/l)
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Ecology - soil	No (test)data on mobility of the substance available. May be harmful to plant growth, blooming and fruit formation.
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Sodium Nitrate (7631-99-4)

Ecology - soil	No (test)data on mobility of the substance available.
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12.5. Other adverse effects

Other information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to appropriate waste disposal facility, in accordance with local, regional, national, international regulations.

Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Proper Shipping Name (DOT) : Not Regulated

Other information : No supplementary information available.

JOHNSEN'S RADIATOR FLUSH 12 FL.OZ.

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Transport by sea

Air transport

Proper Shipping Name (IATA) : Not Regulated

SECTION 15: Regulatory information

15.1. US Federal regulations

JOHNSEN'S RADIATOR FLUSH 12 FL.OZ.	
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard
Water (7732-18-5)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Sodium Hydroxide, Conc=50%, Aqueous Solution (1310-73-2)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
CERCLA RQ	1000 lb
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard
Sodium-2(3H)-Benzothiazolethione, Conc=50%, Aqueous Solution (2492-26-4)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Delayed (chronic) health hazard
Disodium Metasilicate, Pentahydrate (10213-79-3)	
Not listed on the United States TSCA (Toxic Substances Control Act) inventory	
Disodium Tetraborate, Decahydrate (1303-96-4)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Sodium Nitrate (7631-99-4)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Sodium Dihydrogen Orthophosphate, Monohydrate (10049-21-5)	
Not listed on the United States TSCA (Toxic Substances Control Act) inventory	

15.2. International regulations

CANADA

Water (7732-18-5)	
Listed on the Canadian DSL (Domestic Substances List)	
Sodium Hydroxide, Conc=50%, Aqueous Solution (1310-73-2)	
Listed on the Canadian DSL (Domestic Substances List)	
WHMIS Classification	Class E - Corrosive Material
Sodium-2(3H)-Benzothiazolethione, Conc=50%, Aqueous Solution (2492-26-4)	
Listed on the Canadian DSL (Domestic Substances List)	
Disodium Metasilicate, Pentahydrate (10213-79-3)	
Disodium Tetraborate, Decahydrate (1303-96-4)	
Listed on the Canadian DSL (Domestic Substances List)	
WHMIS Classification	Class D Division 2 Subdivision A - Very toxic material causing other toxic effects
Sodium Nitrate (7631-99-4)	
Listed on the Canadian DSL (Domestic Substances List)	
WHMIS Classification	Class C - Oxidizing Material Class D Division 2 Subdivision B - Toxic material causing other toxic effects
Sodium Dihydrogen Orthophosphate, Monohydrate (10049-21-5)	

EU-Regulations

Sodium Hydroxide, Conc=50%, Aqueous Solution (1310-73-2)
Sodium-2(3H)-Benzothiazolethione, Conc=50%, Aqueous Solution (2492-26-4)
Disodium Metasilicate, Pentahydrate (10213-79-3)
Disodium Tetraborate, Decahydrate (1303-96-4)
Sodium Nitrate (7631-99-4)

JOHNSEN'S RADIATOR FLUSH 12 FL.OZ.

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Sodium Dihydrogen Orthophosphate, Monohydrate (10049-21-5)

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

15.2.2. National regulations

Sodium Hydroxide, Conc=50%, Aqueous Solution (1310-73-2)

Sodium-2(3H)-Benzothiazolethione, Conc=50%, Aqueous Solution (2492-26-4)

Disodium Metasilicate, Pentahydrate (10213-79-3)

Not listed on the Canadian DSL (Domestic Substances List)/NDSL (Non-Domestic Substances List)

Disodium Tetraborate, Decahydrate (1303-96-4)

Sodium Nitrate (7631-99-4)

Sodium Dihydrogen Orthophosphate, Monohydrate (10049-21-5)

Not listed on the Canadian DSL (Domestic Substances List)/NDSL (Non-Domestic Substances List)

15.3. US State regulations

JOHNSEN'S RADIATOR FLUSH 12 FL.OZ.()

U.S. - California - Proposition 65 - Carcinogens List	No
U.S. - California - Proposition 65 - Developmental Toxicity	No
U.S. - California - Proposition 65 - Reproductive Toxicity - Female	No
U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No

Water (7732-18-5)

U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)
No	No	No	No	

Pluronic L-61 Surfactant (Proprietary)

U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)
No	No	No	No	

Sodium Hydroxide, Conc=50%, Aqueous Solution (1310-73-2)

U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)
No	No	No	No	

Sodium-2(3H)-Benzothiazolethione, Conc=50%, Aqueous Solution (2492-26-4)

U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)
No	No	No	No	

Disodium Metasilicate, Pentahydrate (10213-79-3)

U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)
No	No	No	No	

JOHNSEN'S RADIATOR FLUSH 12 FL.OZ.

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Disodium Tetraborate, Decahydrate (1303-96-4)				
U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)
No	No	No	No	

Sodium Nitrate (7631-99-4)				
U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)
No	No	No	No	

Sodium Dihydrogen Orthophosphate, Monohydrate (10049-21-5)				
U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)
No	No	No	No	

Sodium Hydroxide, Conc=50%, Aqueous Solution (1310-73-2)				
State or local regulations				
U.S. - Delaware - Pollutant Discharge Requirements - Reportable Quantities U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations U.S. - Massachusetts - Right To Know List U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - New York City - Right to Know Hazardous Substances List U.S. - Pennsylvania - RTK (Right to Know) List				

Disodium Tetraborate, Decahydrate (1303-96-4)				
State or local regulations				
U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations U.S. - Massachusetts - Right To Know List U.S. - New York City - Right to Know Hazardous Substances List U.S. - Pennsylvania - RTK (Right to Know) List				

Sodium Nitrate (7631-99-4)				
State or local regulations				
U.S. - New York City - Right to Know Hazardous Substances List U.S. - Pennsylvania - RTK (Right to Know) List				

SECTION 16: Other information

Other information : None.

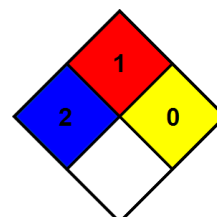
Full text of H-phrases:

H272	May intensify fire; oxidizer
H290	May be corrosive to metals
H302	Harmful if swallowed
H312	Harmful in contact with skin
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H401	Toxic to aquatic life

NFPA health hazard : 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.

NFPA fire hazard : 1 - Materials that must be preheated before ignition can occur.

NFPA reactivity : 0 - Material that in themselves are normally stable, even under fire conditions.



JOHNSEN'S RADIATOR FLUSH 12 FL.OZ.

Safety Data Sheet

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Hazard Rating

Health	: 2 Moderate Hazard - Temporary or minor injury may occur
Flammability	: 1 Slight Hazard
Physical	: 0 Minimal Hazard
Personal protection	: B

The Supplier identified in Section 1 of this SDS has evaluated this product and certifies it to be labeled and packaged in compliance with the applicable provisions of the Federal Hazardous Substance Act as stated in 16 CFR 1500 and enforced by the Consumer Product Safety Commission, and where applicable the products that require Child Resistant Closures are packaged in accordance with the Poison Prevention Packaging Act as stated in 16 CFR 1700 and enforced by the Consumer Product Safety Commission. All closures have been tested in accordance with the latest protocols. No other testing is required to certify compliance with the above. The date of manufacture is stamped on the product

Disclaimer: The information and recommendations contained herein are based upon tests believed to be reliable. However, the manufacturer/distributor of this product does not guarantee their accuracy or completeness NOR SHALL ANY OF THIS INFORMATION CONSTITUTE A WARRANTY, WHETHER EXPRESSED OR IMPLIED, AS TO THE SAFETY OF THE GOODS, THE MERCHANTABILITY OF THE GOODS, OR THE FITNESS OF THE GOODS FOR A PARTICULAR PURPOSE. Adjustment to conform to actual conditions of usage may be required. The manufacturer/distributor assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. Published by Ruben Morales