JMN SPECIALTIES, INC.

Safety Data Sheet
A-A-59133 TYPE 1

SECTION 1: Identification

1.1 GHS Product identifier

Product name	A-A-59133 TYPE 1
Product number	A-A-59133 TYPE 1
Brand	JMN

1.2 Other means of identification

MIL-A-A-59133 TYPE 1

1.3 Recommended use of the chemical and restrictions on use

This commercial item description (CID) covers alkaline steam cleaning compounds for use in steam cleaning machines for cleaning ferrous and nonferrous surfaces of equipment.

1.4 Supplier's details

Name	JMN Specialties, Inc.
Address	1100 Victory Drive Westwego LA 70094 USA
Telephone	504-341-3749
Fax	504-341-5868
email	sales@jmnspecialties.com

1.5 Emergency phone number

CALL CHEMTEL: Toll Free US & Canada: (800) 255-3924, Outside USA +01-813-248-0585.

SECTION 2: Hazard identification

2.1 Classification of the substance or mixture

GHS classification in accordance with: (US) OSHA (29 CFR 1910.1200)

- Skin corrosion/irritation, Cat. 2
- Eye damage/irritation, Cat. 2A
- Eye damage/irritation, Cat. 1
- Skin corrosion/irritation, Cat. 1
- Specific target organ toxicity (single exposure), Cat. 3

2.2 GHS label elements, including precautionary statements

Pictograms

Signal word **Danger**

Hazard statement(s)

H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H318	Causes serious eye damage
H319	Causes serious eye irritation
H335	May cause respiratory irritation

Precautionary statement(s)

P260	Do not breathe dust/fume/gas/mist/vapors/spray.
P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P264	Wash hands and clean any skin contact thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
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/shower.
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.
P310	Immediately call a POISON CENTER/doctor/...
P312	Call a POISON CENTER, doctor, or emergency room if you feel unwell,
P321	Specific treatment (see first aid instructions on 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.
P363	Wash contaminated clothing before reuse.
P403+P233	Store in a well-ventilated place. Keep the container tightly closed.
P405	Store locked up.
P501	Dispose of container and unused contents in accordance with federal, state and local requirements.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Component	Identification	Weight %	Classifications
Sodium metasilicate pentahydrate	CAS no.: 6834-92-0 EC no.: 229-912-9 Index no.: 014-010-00-8	30 - 40 %	CLASSIFICATIONS: Specific target organ toxicity (single exposure), Cat. 3; Skin corrosion/irritation, Cat. 1B. HAZARDS: H314 - Causes severe skin burns and eye damage; H335 - May cause respiratory irritation.
Sodium phosphate monobasic	CAS no.: 7558-80-7	8 - 12 %	CLASSIFICATIONS: No data available. HAZARDS: No data available.

Component	Identification	Weight %	Classifications
Pentasodium triphosphate	CAS no.: 7758-29-4 EC no.: 231-838-7	50 - 55 %	CLASSIFICATIONS: Eye damage/irritation, Cat. 2; Skin corrosion/irritation, Cat. 2; Specific target organ toxicity (single exposure), Cat. 3. HAZARDS: No data available.
Alcohols, c12-15, ethoxylated	CAS no.: 68131-39-5	1 - 5 %	CLASSIFICATIONS: Acute toxicity, oral, Cat. 4; Eye damage/irritation, Cat. 1; Hazardous to the aquatic environment, short-term (acute), Cat. 2; Hazardous to the aquatic environment, long-term (chronic), Cat. 3. HAZARDS: H302 - Harmful if swallowed; H318 - Causes serious eye damage; H401 - Toxic to aquatic life; H412 - Harmful to aquatic life with long lasting effects.

SECTION 4: First-aid measures

4.1 Description of necessary first-aid measures

General advice — Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

If inhaled — Call a poison center or doctor if you feel unwell. Acute and delayed symptoms and effects: May cause respiratory irritation. Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

In case of skin contact — Wash with plenty of water for at least 15 minutes. Call a poison center or doctor if irritation develops or persists. Take off contaminated clothing and wash it before reuse. Acute and delayed symptoms and effects: Causes skin irritation. Signs/symptoms may include localized redness, swelling, and itching.

In case of eye contact — Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention/advice. Acute and delayed symptoms and effects: Causes serious eye irritation. Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

If swallowed — Rinse mouth. If vomiting occurs naturally, have victim lean forward to reduce the risk of aspiration. Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Call a poison center or doctor if you feel unwell. Acute and delayed symptoms and effects: Harmful if swallowed. May cause gastrointestinal irritation. Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

4.2 Most important symptoms/effects, acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11

4.3 Indication of immediate medical attention and special treatment needed, if necessary

No data available.

SECTION 5: Fire-fighting measures

5.1 Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Specific hazards arising from the chemical
Carbon oxides, nitrogen oxides, Sodium oxides

5.3 Special protective actions for fire-fighters
Wear self-contained breathing apparatus for firefighting if necessary.

Further information
Use water spray to cool unopened containers.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Wear respiratory protection if necessary. Avoid breathing gas, mist, vapors, spray. Ensure adequate ventilation. Evacuate personnel to safe areas. For personal protection see section 8.

6.2 Environmental precautions
Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up
For small spills, dilute with water to sewer if allowed by local and state regulations. If unable to wash product with water, absorb with inert material (sand or other approved material) and dispose of in accordance with applicable regulations.

Reference to other sections
For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling
Do not swallow. Do not breathe mist, vapors, or spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. See Section 8 for information on Personal Protective Equipment.

7.2 Conditions for safe storage, including any incompatibilities
Store locked up. Store away from incompatible materials. See Section 10 for information on Incompatible Materials. Keep out of the reach of children.

Specific end use(s)
Apart from the uses mentioned in section 1 no other specific uses are stipulated.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

1. Sodium metasilicate pentahydrate (CAS: 6834-92-0 EC: 229-912-9)
PEL-TWA, Worker - acute effects local (Inhalation): TWA 15 mg/m³ (total), TWA 5 mg/m³ (respirable). ; USA (EU/OSHA)

2. Pentasodium triphosphate (CAS: 7758-29-4 EC: 231-838-7)
PEL-TWA, Consumer - acute effects local (Inhalation): PEL-TWA of 10 mg/m³ for inhalable particles and 3 mg/m³ for respirable particles; USA (EU/OSHA)

8.2 Appropriate engineering controls

Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, gas, etc.) below recommended exposure limits.

8.3 Individual protection measures, such as personal protective equipment (PPE)

Pictograms

Eye/face protection

Safety glasses. If splash hazard, wear face shield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Ensure that eyewash stations and/or safety showers are close to the workstation location if working with concentrated product.

Skin protection

Wear protective gloves. Consult manufacturer specifications for further information.

Body protection

Recommend: safety goggles, nitrile or rubber gloves, dust mask or respirator (P2 or N95) if airborne dust is possible. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Thermal hazards

No data available.

Environmental exposure controls

Do not let product enter drains.

SECTION 9: Physical and chemical properties

Basic physical and chemical properties

Physical state	Solid
Appearance	Granular Solids
Color	White
Odor	Bland
Odor threshold	Not Determined
Melting point/freezing point	Not applicable
Boiling point or initial boiling point and boiling range	Not applicable
Flammability	Not applicable
Lower and upper explosion limit/flammability limit	Not applicable

Flash point	Non-flammable material
Explosive properties	Not applicable
Auto-ignition temperature	Not applicable
Decomposition temperature	Not applicable
Oxidizing properties	Not applicable
pH	Not applicable
Kinematic viscosity	Not applicable
Solubility	Complete
Partition coefficient n-octanol/water (log value)	Not applicable
Vapor pressure	Not applicable
Evaporation rate	No data available.
Density and/or relative density	2.20 - 2.40
Relative vapor density	Not applicable
Particle characteristics	Not applicable

Further safety characteristics (supplemental)
No data available.

SECTION 10: Stability and reactivity

10.1 Reactivity
None under normal use conditions.

10.2 Chemical stability
Stable under normal storage conditions.

10.3 Possibility of hazardous reactions
None under normal use conditions.

10.4 Conditions to avoid
Heat, flames and sparks. Incompatible products. Keep away from open flames, hot surfaces and sources of ignition.

10.5 Incompatible materials
Strong oxidizing agents, Strong acids.

10.6 Hazardous decomposition products
Hazardous decomposition products formed under fire conditions. - Carbon oxides
In the event of fire: see section 5

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity
For Product:
LD50 Oral - Rat - 960-3,980 mg/kg

Skin corrosion/irritation
May cause skin irritation. Signs/symptoms may include localized redness, swelling, and itching.
LD50 Skin - Rabbit - > 1,060 mg/kg
Remarks: OECD Test Guideline 402

Serious eye damage/irritation
Causes serious eye irritation. Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

Respiratory or skin sensitization
LC50 Inhalation - Rat - 450 ppm

Germ cell mutagenicity
Data from animal and human studies to date for ingredients in this product do not provide evidence that exposure has mutagenic or carcinogenic effects.

Carcinogenicity
Result: 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.
ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
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.
OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
No data available.

Summary of evaluation of the CMR properties
Product does not contain substances meeting the criteria for classification as carcinogenic, mutagenic, or toxic for reproduction category 1A or 1B in accordance with the Classification, Labeling, and Packaging (CLP) Regulation (EC) No. 1272/2008

Specific target organ toxicity (STOT) - single exposure
Category 3: Respiratory tract irritation (sore throat, cough).

Specific target organ toxicity (STOT) - repeated exposure
The effects of long-term, low-level exposures to this product have not been determined. Safe handling of this material on a long-term basis should emphasize the avoidance of all effects from repetitive acute exposure. This product may aggravate existing eye, skin, and respiratory conditions.

Aspiration hazard
Droplets of the product aspirated into the lungs through ingestion or vomiting may cause chemical pneumonia.

Additional information
No data available.

SECTION 12: Ecological information

Toxicity
FISH
Product: Fish: Expected to have low toxicity: >100 mg/L (based on similar products / components)
AQUATIC INVERTEBRATES
Product: Daphnia magna: Expected to have low toxicity: >10 - <100 mg/L (based on similar products / components) (based on similar products / components)

CHRONIC TOXICITY
FISH
Product: NOEC/NOEL: >100 mg/L (based on similar products / components)
AQUATIC INVERTEBRATES
Product: NOEC/NOEL: >100 mg/L (based on similar products / components)
TOXICITY TO AQUATIC PLANTS
Product: Algae: Expected to have low toxicity: >100 mg/L (based on similar products / components) (based on similar products / components)

Persistence and degradability
This product contains organic and non-organic ingredients. Biodegradability for organic ingredients under aerobic static laboratory conditions is high (BOD20 or BOD28 / THOD greater than 80%).

Alcohols, C12-15, ethoxylated: Readily biodegradable

Bioaccumulative potential
Potential to bioaccumate is low.

Mobility in soil
Expected to partition to water.

Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

Endocrine disrupting properties
This product does not contain any known or suspected endocrine disruptors.

Other adverse effects
No data available.

SECTION 13: Disposal considerations

Disposal methods

Product disposal
Disposal should be in accordance with applicable Federal, State and local laws and regulations. Local regulations may be more stringent than State or Federal requirements.

Packaging disposal
Chemical containers that have been emptied (generally this means drained of their contents by normal methods including pouring, pumping, aspirating, etc.) are not regulated as hazardous waste; however they should not necessarily be disposed of in the regular solid waste dumpsters. The waste generator must determine whether the washings must be collected and disposed of as hazardous waste. Generally, if the chemical is on the list of acutely hazardous wastes or if the material is known to have high acute toxicity, the washings must be collected.

Waste treatment
The Clean Water Act requires chemical wash wastewater to be routed to water treatment facilities or to state-approved drainage facilities designed to protect the environment.

Sewage disposal
Filtration of the wastewater may be conducted before discharge to a sanitary sewer. Filtration is recommended so that fewer solids are present in the wash wastewater stream discharge to the sanitary sewer system. Filtration is mandated by the MWRDGC for wastewater that contains particles greater than 0.5 inch in diameter.

Other disposal recommendations
If discarded in its purchased form, it is not a RCRA hazardous waste. It is the responsibility of the product user to determine at the time of disposal, whether a material containing the product should be classified as a hazardous waste. (40CFR261.20-24).

SECTION 14: Transport information

DOT (US)
Not dangerous goods

IMDG
Not dangerous goods

IATA
Not dangerous goods

SECTION 15: Regulatory information

Component	CAS no.	RTK (US) for state:	TSCA (US)[1]	CA Prop. 65[2]	pfas[3]
Sodium phosphate Monobasic	7558-80-7	-	P	-	-
Pentasodium Triphosphate	7758-29-4	PA, MA	P	-	-
Alcohols, C12-15, ethoxylated	68131-39-5	-	P	-	-
Sodium metasilicate pentahydrate	6834-92-0	-	P	-	-

[1] "P"—Public list, "C"—Confidential list. [2] "c"—cancer, "r"—reproductive harm. [3] "pfas"—Per- and polyfluoroalkyl substances.

Regulation	Applicability
Canadian Domestic Substances List (DSL)	Chemical name: Phosphoric acid, monosodium salt CAS number: 7558-80-7
Canadian Domestic Substances List (DSL)	Chemical name: Phosphoric acid, sodium salt CAS number: 7632-05-5
Australian Inventory of Industrial Chemicals	Chemical name: Phosphoric acid, monosodium salt CAS number: 7558-80-7, CR number: 11138
Massachusetts Toxic Use Reduction Act (TURA) list	Chemical name: Sodium tripolyphosphate (STPP) CAS number: 7758-29-4 TRI listing: unlisted; CERCLA listing: X-reportable; TURA-only listing: no; de minimis concentration threshold: 1 percent. Qualifiers/definitions: Due to ongoing policy deliberations, MassDEP will not take enforcement for failure to report or develop a TUR plan for this chemical. Changes: CERCLA chemical added RY1993
Canadian Domestic Substances List (DSL)	Chemical name: Triphosphoric acid, pentasodium salt CAS number: 7758-29-4

Australian Inventory of Industrial Chemicals	Chemical name: Triphosphoric acid, pentasodium salt CAS number: 7758-29-4, CR number: 11296
Canadian Domestic Substances List (DSL)	Chemical name: Alcohols, C12-15, ethoxylated CAS number: 68131-39-5
Australian Inventory of Industrial Chemicals	Chemical name: Alcohols, C12-15, ethoxylated CAS number: 68131-39-5, CR number: 24237
SARA 302 Components	No chemicals in this material [Sodium metasilicate pentahydrate] are subject to the reporting requirements of SARA Title III, Section 302.
SARA 313 Components	This material [Sodium metasilicate pentahydrate] 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.
SARA 311/312 Hazards	Acute Health Hazard for: Sodium metasilicate pentahydrate .
Canadian Domestic Substances List (DSL)	Chemical name: Silicic acid (H2SiO3), disodium salt CAS number: 6834-92-0
EU Table of Harmonised Entries (Annex VI to CLP)	Chemical name: disodium metasilicate CAS number: 6834-92-0
Australian Inventory of Industrial Chemicals	Chemical name: Silicic acid (H2SiO3), disodium salt CAS number: 6834-92-0, CR number: 10784
SARA 302 Components	No chemicals in this material [Triphosphoric acid, pentasodium salt] are subject to the reporting requirements of SARA Title III, Section 302.
SARA 313 Components	This material [Triphosphoric acid, pentasodium salt] 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.
SARA 311/312 Hazards	No SARA Hazards for: Triphosphoric acid, pentasodium salt.

15.2 Chemical Safety Assessment

No chemical safety assessment has been carried out as not applicable as this product is a mixture.

HMIS Rating

A-A-59133 TYPE 1	
HEALTH	2
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	E

NFPA Rating

SECTION 16: Other information

Changes have been made throughout this Safety Data Sheet (SDS). Please read the entire document.

16.1 Further information/disclaimer

Although the information and recommendations set forth herein (hereinafter "Information") are presented in good faith and believed to be correct as of the date hereof, the Company makes no representations as to the completeness or accuracy thereof. Information is supplied upon the condition that the persons receiving this Safety Data Sheet (SDS) will make their own determination as to its suitability for their intended purposes prior to use. Since the product is within the exclusive control of the user, it is the user's obligation to determine the conditions of safe use of this product. Such conditions should comply with all Federal and State Regulations concerning the Product. It must be recognized that the physical and chemical properties of any product may not be fully understood and that new, possibly hazardous products may arise from reactions between chemicals. The information given in this data sheet is based on our present knowledge and shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OF ANY OTHER NATURE ARE MADE HEREUNDER WITH RESPECT TO INFORMATION OR THE PRODUCT TO WHICH INFORMATION REFERS.

16.2 Preparation information

Prepared according to the OSHA Hazard Communication Standard (29 CFR 1910.1200) and The Globally Harmonized System of Classification and Labeling of Chemicals (GHS) by the Company Health and Risk Assessment Unit.