Material Safety Data Sheet

Air Intake Cleaner

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name Air Intake Cleaner
Part number TNDS8051

Product Family Aromatic solvent blend
Manufacturer Shrader Canada Limited
830 Progress Court
Oakville, ON L6L 6K1
+1.905.847.0222
www.shradercanada.com
Emergency Contact Information CANUTEC, +1.613.996.6666, Operation hours: 24/7
Use Air intake cleaner

2. HAZARDS IDENTIFICATION

Potential Health Effects

Route of Exposure Inhalation;
Skin contact;
Eye contact;
Ingestion.
Inhalation At high concentrations: can irritate the nose and throat.
Skin Contact SKIN IRRITANT.
Eye Contact May cause moderate to severe irritation.
Ingestion If large amounts are ingested: Can cause effects as described for inhalation. Aspiration hazard.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Concentration %	Other Identifiers
Toluene	108-88-3	15-40	
Xylene (mixed isomers)	1330-20-7	10-30	
Acetone	67-64-1	10-30	
Ethylbenzene	100-41-4	5-10	
Carbon dioxide	124-38-9	1-5	
Hydrotreated, heavy naphthenic distillate	64742-52-5	0.1-1.0	
Hydrotreated light naphthenic distillate	64742-53-6	0.1-1.0	
Methanol	67-56-1	0.1-1.0	

4. FIRST AID MEASURES

First Aid Procedures

Inhalation	Move victim to fresh air. Take precautions to ensure your own safety before attempting rescue (e.g. wear appropriate protective equipment). Call a Poison Centre or doctor if the victim feels unwell.
Skin Contact	Take off contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Wash gently and thoroughly with lukewarm, gently flowing water and non-abrasive soap for 5 minutes. If irritation or pain persists, see a doctor.
Eye Contact	Immediately flush the contaminated eye(s) with lukewarm, gently flowing water for 15-20 minutes, while holding the eyelid(s) open. Take care not to rinse contaminated water into the unaffected eye or onto the face. If irritation or pain persists, see a doctor.
Ingestion	NEVER give anything by mouth if victim is rapidly losing consciousness, or is unconscious or convulsing. DO NOT INDUCE VOMITING. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Have victim rinse mouth with water again. Drink two glasses of water. Immediately call a Poison Centre or doctor.

5. FIRE FIGHTING MEASURES

Flammable Properties	FLAMMABLE AEROSOL. May cause a fire or explosion.
Suitable Extinguishing Media	Carbon dioxide, dry chemical powder or appropriate foam. Use water to keep non-leaking, fire-exposed containers cool.
Unsuitable Extinguishing Media	DO NOT use water or water-based extinguishing agents.
Specific Hazards Arising from the Chemical	Gas or vapour may travel a considerable distance to a source of ignition and flash back to a leak or open container. Closed containers may rupture violently when heated releasing contents. Very toxic carbon monoxide, carbon dioxide. and other unidentified organic compounds.
Protective Equipment and Precautions for Firefighters	Fight fire from a safe distance or a protected location.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Eliminate all ignition sources. Use grounded, explosion-proof equipment. Evacuate the area immediately. Isolate the hazard area. Keep out unnecessary and unprotected personnel. Do not touch damaged containers or spilled product unless wearing appropriate protective equipment.
Environmental Precautions	Do not allow into any sewer, on the ground or into any waterway. If the spill is inside a building, prevent product from entering drains, ventilation systems and confined areas.
Methods for Containment and Clean-up	Contain and soak up spill with absorbent that does not react with spilled product. Place used absorbent into suitable, covered, labelled containers for disposal.

7. HANDLING AND STORAGE

Handling	Eliminate heat and ignition sources such as sparks, open flames, hot surfaces and static discharge. Post "No Smoking" signs. Do not use near welding operations or other high energy sources. Avoid repeated or prolonged skin contact with product or with contaminated equipment/surfaces. Only use where there is adequate ventilation.
Storage	Store in an area that is: cool, dry, well-ventilated, out of direct sunlight and away from heat and ignition sources, separate from incompatible materials (see Section 10: Stability and Reactivity). Empty containers may contain hazardous residue. Store separately. Keep closed. Follow all precautions given on this MSDS.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

	ACGIH® TLV®		OSHA PEL			
Chemical Name	**TWA**	**STEL [C]**	**TWA**	**Ceiling**		
Toluene	20 ppm A4	Not established	Not established	Not established		
Xylene (mixed isomers)	100 ppm A4	150 ppm A4	435 mg/m3	Not established		
Acetone	500 ppm A4	750 ppm A4	1000 ppm	Not established		
Ethylbenzene	20 ppm A3	Not established	100 ppm	Not established		
Carbon dioxide	5000 ppm	Not established	Not established	Not established		
Methanol	200 ppm	250 ppm				

Engineering Controls Sufficient mechanical ventilation to maintain exposures below the TLV. Under normal conditions of use, general ventilation should be satisfactory. Local ventilation is recommended if the product is misted or used in a confined space or if the TLV is exceeded. Make up air should always be supplied to balance air exhausted.

Personal Protective Equipment (PPE)

Eye/Face Protection Wear chemical safety goggles.

Skin Protection Wear chemical protective clothing e.g. gloves, aprons, boots.
Suitable materials are: nitrile rubber. The following materials should NOT be used: natural rubber, neoprene rubber, polyvinyl chloride.

Respiratory Protection Not normally required if product is used as directed.

General Hygiene Considerations Do NOT smoke in work areas. It is good practice to: avoid breathing product; avoid skin and eye contact and wash hands after handling. Wash hands thoroughly after handling this product and before eating, using the washroom or leaving work area.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear pale - yellow Aerosol.
Odour	Aromatic
Relative Density (water = 1)	0.845 at 15 ºC
Solubility in Water	Negligible
pH	Not applicable
Viscosity-Kinematic	< 1 centistokes at 40°C
Vapour Density (air = 1)	Not available
Flash Point	-5 ºC
Lower Flammable/Explosive Limit	Not available
Upper Flammable/Explosive Limit	Not available
Auto-ignition Temperature	Not available
VOC %	75
Flame projection	> 100 cm no flashback
NFPA Classification	Aerosol, level 3

10. STABILITY AND REACTIVITY

Chemical Stability	Normally stable.
Conditions to Avoid	Open flames, sparks, static discharge, heat and other ignition sources. High temperatures. Incompatible materials.
Incompatible Materials	Increased risk of fire and explosion on contact with: strong oxidizing agents (e.g. perchloric acid).
Hazardous Decomposition Products	Very toxic carbon monoxide, carbon dioxide. and other unidentified organic compounds.

11. TOXICOLOGICAL INFORMATION

General Comments

Information presented below is for the entire product, unless otherwise specified.

LC50/LD50 Values

Chemical Name	LC50	LD50 (oral)	LD50 (dermal)
Toluene	7585 ppm (rat) (4-hour exposure)	5580 mg/kg (male rat)	12125 mg/kg (rabbit)
Xylene (mixed isomers)	6350 ppm (male rat) (4-hour exposure)	3523 mg/kg (rat)	> 1700 mg/kg (rabbit)
Acetone	30000 ppm (male rat) (4-hour exposure)	5800 mg/kg (female rat)	> 15800 mg/kg (rabbit)
Ethylbenzene	~ 4000 ppm (rat) (4-hour exposure)	3500 mg/kg (rat)	15380 mg/kg (rabbit)
Hydrotreated, heavy naphthenic distillate	2180 mg/m3 (rat) (4-hour exposure)	> 5000 mg/kg (rat)	> 2000 mg/kg (rabbit)
Hydrotreated light naphthenic distillate	2180 mg/m3 (rat)	> 5000 mg/kg (rat)	> 2000 mg/kg (rabbit)
Methanol	64000 ppm (rat) (4-hour exposure)	5628 mg/kg (rat)	15800 mg/kg

Skin Irritation/Corrosion

There is limited evidence of moderate or severe irritation.

Eye Irritation/Corrosion

There is limited evidence of moderate or severe irritation.

Carcinogenicity

Chemical Name	ACGIH®	IARC	NTP	OSHA
Toluene	A4	Group 3	Not Listed	Not Listed
Xylene (mixed isomers)	A4	Group 3	Not Listed	Not Listed
Ethylbenzene	A3	Group 2B	Not Listed	Not Listed

Not specifically evaluated. (Ethylbenzene) Group 2B – Possibly carcinogenic to humans.

Teratogenicity / Embryotoxicity

(Toluene). (Xylene (mixed isomers)) may cause effects on the unborn child based on limited evidence.

Mutagenicity

No information was located.

12. ECOLOGICAL INFORMATION

Ecotoxicity	Toxic to aquatic life.

13. DISPOSAL CONSIDERATIONS

Empty containers retain product residue. Follow label warnings even if container appears to be empty. Dispose of in accordance with municipal, provincial/state or federal regulations.

14. TRANSPORT INFORMATION

Shipping Information

Regulation	UN No.	Shipping Name	Class	Packing Group
Canadian TDG	UN1950	Aerosols	2.1	
IMDG	UN1950	Aerosols	2.1	
ICAO/IATA	UN1950	Aerosols, flammable	2.1	

Other Transport Information

Special Shipping Information Not applicable

Emergency Response Guide No. 126 EmS F-D, S-U

Other Information ICAO/IATA PI Y203/203
Product may ship as LTD QTY if TDG, ICAO/IATA or IMDG Limited Quantity provisions are met.

15. REGULATORY INFORMATION

Canada

WHMIS Classification

Class A Class B5 Class D2A; D2B

A - Compressed Gas; B5 - Flammable Aerosol; D2A - Very Toxic (Carcinogenicity; Reproductive toxicity); D2B - Toxic (Skin irritant; Eye irritant)

Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL)

All ingredients are listed on the DSL/NDSL.

16. OTHER INFORMATION

NFPA Rating **Health - 1** **Flammability - 4** **Instability - 3**

MSDS Prepared By Regulatory Compliance

Phone No. 800.201.9486

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Key to Abbreviations
ACGIH® = American Conference of Governmental Hygienists
CANUTEC = Canadian Transport Emergency Centre
CAS = Chemical Abstract Service
CCOHS = Canadian Centre for Occupational Health & Safety
CNS = Central nervous system
GESTIS = GESTIS Substance Database
HSDB® = Hazardous Substances Data Bank
IARC = International Agency for Research on Cancer
ICAO = International Civil Aviation Organization

IMDG = International Maritime Dangerous Goods Code
LC = Lethal concentration
LC = Lethal dose
NFPA = National Fire Protection Association
NTP = National Toxicology Program
OSHA = US Occupational Safety and Health Administration
PPM = Parts per million
RTECS® = Registry of Toxic Effects of Chemical Substances
STEL = Short term exposure limit
TDG = Transportation of Dangerous Goods Regulations (Canada)
TWA = Time weighted average

References

Material safety data sheet from manufacturer.
CHEMINFO database. Canadian Centre for Occupational Health and Safety (CCOHS).
HSDB® database. US National Library of Medicine. Available from Canadian Centre for Occupational Health and Safety (CCOHS).
Registry of Toxic Effects of Chemical Substances (RTECS®) database. Accelrys, Inc. Available from Canadian Centre for Occupational Health and Safety (CCOHS).
ECHA - European Chemical Agency, Classification and Labelling Inventory
GESTIS Substance Database
OECD - The Global Portal to Information on Chemical Substances - eChemPortal, 2015.

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