Material Safety Data Sheet: DYLEK PS II AEROSOL

Supercedes Date Not applicable **Issuing Date** 08/28/2008

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name DYLEK PS II AEROSOL
Product Code 5600
Recommended Use Cleaning agent
Chemical Nature Alcohols

Information on Manufacturer

CERTIFIED LABS, DIV. OF NCH CORP.
BOX 152170
IRVING, TEXAS 75015

Emergency Telephone Number

CHEMTREC ® 800-424-9300

2. HAZARDS IDENTIFICATION

Emergency Overview

Danger
Extremely flammable
May be harmful if inhaled
Causes skin irritation
Severe eye irritation
Harmful or fatal if swallowed
Contents under pressure

Color Colorless **Physical State** Liquid **Odor** Alcoholic

Potential Health Effects

Principle Route of Exposure Inhalation, Skin contact, Eye contact.

Primary Routes of Entry Inhalation, Skin Absorption.

Acute Effects

Eyes Severe eye irritant.

Skin Causes skin irritation. May be absorbed through the skin in harmful amounts.

Inhalation May cause irritation of respiratory tract. Causes headache, drowsiness or other effects to the central nervous system. Inhalation of vapors in high concentration can cause narcotic effects and metabolic acidosis .

Ingestion Ingestion may cause irritation to mucous membranes. Causes headache, drowsiness or other effects to the central nervous system. Acidosis. May be fatal or cause blindness if swallowed. Lowered blood pressure. Aspiration hazard if swallowed - can enter lungs and cause damage.

Chronic Effects May cause damage to the kidneys/liver/eyes/brain/digestive system/central nervous system through prolonged or repeated exposure if swallowed. Repeated and prolonged exposure to solvents may cause brain and nervous system damage. Cardiac. Damage.

Target Organ Effects Blood, Central nervous system, Gastrointestinal tract, Liver, Reproductive System, Respiratory system, Eyes, Heart, Kidney.

Aggravated Medical Conditions Heart. Liver disorders. Neurological disorders. Skin disorders. Respiratory disorders. Kidney disorders.

Potential Environmental Effects See Section 12 for additional Ecological information

3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS-No
Carbon Dioxide	124-38-9
Ethylacetate	141-78-6
Ethyl alcohol	64-17-5
Methyl alcohol	67-56-1
Isopropyl alcohol	67-63-0
Methyl acetate	79-20-9

4. FIRST AID MEASURES

General Advice Do not breathe vapors or spray mist . Do not get in eyes, on skin, or on clothing.

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes . Get medical attention immediately.

Skin Contact Wash off immediately with soap and plenty of water. Get medical attention if irritation develops and persists. Remove and wash contaminated clothing before re-use.

Inhalation Move to fresh air. In case of shortness of breath, give oxygen. If breathing has stopped, apply artificial respiration. Get medical attention immediately.

Ingestion Drink 1 or 2 glasses of water. Do not induce vomiting. Get medical attention immediately. Never give anything by mouth to an unconscious person.

Notes to Physician Inhalation of vapours in high concentration can cause narcotic effects and metabolic acidosis. May cause cardiac arrhythmia. Ethanol solutions. Aspiration hazard if swallowed - can enter lungs and cause damage.

5. FIRE-FIGHTING MEASURES

Flash Point 55°F / 13°C **Method** Seta closed cup

Autoignition Temperature No information available

Flammability Limits in Air Solvent mixture **Upper** 19 **Lower** 3.1

Suitable Extinguishing Media

Water spray. Carbon dioxide (CO2). Foam. Alcohol-resistant foam . Dry chemical. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Specific Hazards Arising from the Chemical

Solvent vapors are heavier than air and may spread along floors . Vapors may ignite and explode. Flame extension: 18 inches / 45.7 cm and Burnback: 6 inches / 15 cm .

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA	**Health**	2	**Flammability**	4	**Instability**	0
HMIS	**Health**	2	**Flammability**	4	**Instability**	0

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions Remove all sources of ignition. Ventilate the area. Use personal protective equipment. Prevent further leakage or spillage if safe to do so. Material can create slippery conditions.

Environmental Precautions Do not flush into surface water or sanitary sewer system.

Methods for Containment Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13)

Methods for Cleaning Up Pick up and transfer to properly labelled containers.

Neutralizing Agent Not applicable

7. HANDLING AND STORAGE

Handling Do not breathe vapors or spray mist . Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product.

Storage Store in original container. Keep in a dry, cool and well-ventilated place. Keep away from heat and sources of ignition.

Storage Temperature **Minimum** 35°F / 2°C **Maximum** 120°F / 49°C

Storage Conditions **Indoor** X **Outdoor** **Heated** **Refrigerated**

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH
Carbon Dioxide	TWA: 5000 ppm STEL: 30000 ppm	TWA: 5000 ppm TWA: 9000 mg/m^3	IDLH: 40000 ppm STEL 54000 mg/m^3 STEL 30000 ppm TWA: 5000 ppm TWA: 9000 mg/m^3
Ethylacetate	TWA: 400 ppm	TWA: 1400 mg/m^3 TWA: 400 ppm	IDLH: 2000 ppm TWA: 400 ppm TWA: 1400 mg/m^3
Ethyl alcohol	TWA: 1000 ppm	TWA: 1000 ppm TWA: 1900 mg/m^3	IDLH: 3300 ppm TWA: 1900 mg/m^3 TWA: 1000 ppm
Methyl alcohol	TWA: 200 ppm Skin STEL: 250 ppm	TWA: 200 ppm TWA: 260 mg/m^3	IDLH: 6000 ppm STEL 250 ppm STEL 325 mg/m^3 TWA: 200 ppm TWA: 260 mg/m^3
Isopropyl alcohol	TWA: 200 ppm STEL: 400 ppm	TWA: 400 ppm TWA: 980 mg/m^3	IDLH: 2000 ppm STEL 1225 mg/m^3 STEL 500 ppm TWA: 980 mg/m^3 TWA: 400 ppm
Methyl acetate	TWA: 200 ppm STEL: 250 ppm	TWA: 200 ppm TWA: 610 mg/m^3	IDLH: 3100 ppm STEL 250 ppm STEL 760 mg/m^3 TWA: 610 mg/m^3 TWA: 200 ppm

Engineering Measures Use with local exhaust ventilation. Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment

Eye/Face Protection Tightly fitting safety goggles.

Skin Protection Impervious gloves.

Respiratory Protection Use NIOSH approved respiratory protection.

General Hygiene Considerations Ensure that eyewash stations and safety showers are close to the workstation location. Remove and wash contaminated clothing before re-use. Wear protective gloves/clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid	**Viscosity**	Non viscous
Color	Colorless	**Odor**	Alcoholic
Appearance	Transparent	**pH**	Not applicable
Specific Gravity	0.680	**Bulk Density**	5.69
Evaporation Rate	124.7 (Butyl acetate=1)	**Percent Volatile (Volume)**	100
VOC Content (%)	73	**Vapor Pressure**	3781 mmHg @ 70 °F
Vapor Density	1.5	**Solubility**	Completely soluble
Boiling Point/Range	150°F / 66°C		

10. STABILITY AND REACTIVITY

Chemical Stability Stable. Hazardous polymerization does not occur .

Conditions to Avoid Heat, flames, and sparks.

Incompatible Products Strong oxidizing agents. Halogenated hydrocarbon.

Hazardous Decomposition Products Carbon oxides.

Possibility of Hazardous Reactions None under normal processing

11. TOXICOLOGICAL INFORMATION

Product Information No information available

Component Information

Acute toxicity

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation	Draize Test	Other
Carbon Dioxide	no data available	no data available	no data available	no data available	no data available
Ethylacetate	5620 mg/kg (Rat)	18000 mg/kg (Rabbit) 20 mL/kg (Rabbit)	no data available	no data available	no data available
Ethyl alcohol	7060 mg/kg (Rat)	no data available	no data available	no data available	no data available

Methyl alcohol	5628 mg/kg (Rat)	15800 mg/kg (Rabbit)	64000 ppm (Rat) 4 h 83.2 mg/L (Rat) 4 h	no data available	no data available
Isopropyl alcohol	4396 mg/kg (Rat)	12800 mg/kg (Rat) 12870 mg/kg (Rabbit)	72.6 mg/L (Rat) 4 h	no data available	no data available
Methyl acetate	5000 mg/kg (Rat)	2000 mg/kg (Rat) 5000 mg/kg (Rabbit)	16000 ppm (Rat) 4 h	no data available	no data available

Chronic Toxicity

Component	Mutagenicity	Sensitization	Developmental Toxicity	Reproductive Toxicity	Target Organ Effects
Carbon Dioxide	no data available	no data available	no data available	no data available	respiratory system, CVS
Ethylacetate	no data available	no data available	no data available	no data available	eyes, skin, respiratory system
Ethyl alcohol	no data available	no data available	no data available	no data available	respiratory system, skin, eyes, CNS, liver, blood, reproductive system
Methyl alcohol	no data available	no data available	no data available	no data available	skin, eyes, CNS, GI tract, respiratory system
Isopropyl alcohol	no data available	no data available	no data available	no data available	eyes, skin, respiratory system, kidney
Methyl acetate	no data available	no data available	no data available	no data available	skin, eyes, respiratory system, CNS

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	ACGIH	IARC	NTP	OSHA	Other
Carbon Dioxide	not applicable	not applicable	not applicable	not applicable	not applicable
Ethylacetate	not applicable	not applicable	not applicable	not applicable	not applicable
Ethyl alcohol	not applicable	Group 1 in alcoholic beverages	Known	X	not applicable
Methyl alcohol	not applicable	not applicable	not applicable	not applicable	not applicable
Isopropyl alcohol	not applicable	not applicable	not applicable	not applicable	not applicable
Methyl acetate	not applicable	not applicable	not applicable	not applicable	not applicable

12. ECOLOGICAL INFORMATION

Product Information No information available

Component Information

Component	Toxicity to Algae	Toxicity to Fish	Microtox	Water Flea	log Pow
Carbon Dioxide	no data available	no data available	no data available	no data available	N/A
Ethylacetate	EC50= 3300 mg/L Scenedesmus subspicatus 48 h	LC50= 230 mg/L Pimephales promelas 96 h LC50= 484 mg/L Oncorhynchus mykiss 96 h	EC50 = 1180 mg/L 5 min EC50 = 1500 mg/L 15 min EC50 = 5870 mg/L 15 min EC50 = 7400 mg/L 2 h	EC50 = 717 mg/L 48 h	0.6
Ethyl alcohol	no data available	LC50= 12900 mg/L Oncorhynchus mykiss 96 h LC50= 14.2 mg/L Pimephales promelas 96 h	EC50 = 34634 mg/L 30 min EC50 = 35470 mg/L 5 min	EC50 = 10800 mg/L 24 h EC50 = 9268 mg/L 48 h	-0.32
Methyl alcohol	no data available	LC50= 13200 mg/L Oncorhynchus mykiss 96 h LC50= 28100 mg/L Pimephales promelas 96 h	EC50 = 39000 mg/L 25 min EC50 = 40000 mg/L 15 min EC50 = 43000 mg/L 5 min	no data available	-0.77
Isopropyl alcohol	EC50> 1000 mg/L Scenedesmus subspicatus 72 h EC50> 1000 mg/L Scenedesmus subspicatus 96 h	LC50= 61200 mg/L Pimephales promelas 96 h LC50= 94900 mg/L Pimephales promelas 96 h LC50= 9640 mg/L Pimephales promelas 96 h	EC50 = 35390 mg/L 5 min	EC50 = 13299 mg/L 48 h	0.05
Methyl acetate	EC50> 120 mg/L Scenedesmus subspicatus 72 h	LC50= 250 mg/L Brachydanio rerio 96 h LC50= 320 mg/L Pimephales promelas 96 h	EC50 = 6000 mg/L 16 h EC50 = 6100 mg/L 30 min	EC50 = 1026.7 mg/L 48 h	0.18

Persistence and Degradability No information available
Bioaccumulation No information available
Mobility No information available

13. DISPOSAL CONSIDERATIONS

Product Disposal Dispose of as hazardous waste in compliance with local and national regulations
Container Disposal Empty containers should be taken for local recycling, recovery or waste disposal

14. TRANSPORT INFORMATION

DOT DOT
Proper Shipping Name Consumer commodity
Hazard Class ORM-D
Description Consumer commodity ,ORM-D,

TDG
Proper shipping name Aerosols
Hazard Class 2.1
UN-No UN1950
Description AEROSOLS,2.1,UN1950 LTD. QTY.

ICAO ICAO
Proper Shipping Name DO NOT SHIP AIR

IATA
Proper Shipping Name DO NOT SHIP AIR

IMDG/IMO
Proper Shipping Name Aerosols
Hazard Class 2.1
UN-No UN1950
EmS No. F-D, S-U
Shipping Description UN1950, Aerosols,2.1 LTD. QTY.

15. REGULATORY INFORMATION

Inventories

TSCA	Complies
DSL	Complies

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and and Title 40n of the Code of Federal Regulations, Part 372:

Component	CAS-No	Weight %	SARA 313 - Threshold Values
Methyl alcohol	67-56-1	1-5	1.0
Isopropyl alcohol	67-63-0	5-10	1.0

SARA 311/312 Hazardous Categorization

Acute Health Hazard	Chronic Health Hazard	Fire Hazard	Sudden Release of Pressure Hazard	Reactive Hazard
Yes	Yes	Yes	Yes	No

CERCLA

Component	Hazardous Substances RQs	CERCLA EHS RQs
Carbon Dioxide	Not applicable	Not applicable
Ethylacetate	5000 lb	Not applicable
Ethyl alcohol	Not applicable	Not applicable
Methyl alcohol	5000 lb	Not applicable
Isopropyl alcohol	Not applicable	Not applicable
Methyl acetate	Not applicable	Not applicable

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS Hazard Class

A Compressed gases, B5 Flammable aerosol, D2A Very toxic materials , D2B Toxic materials .

16. OTHER INFORMATION

Prepared By	Mike McDowell
Supercedes Date	Not applicable
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Reason for Revision	No information available
Glossary	No information available
List of References	No information available

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