Safety Data Sheet: DYLEK PS II AEROSOL SAMPLE, NAC MM

Supercedes Date 02/08/2012 **Issuing Date** 10/09/2013

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name DYLEK PS II AEROSOL SAMPLE, NAC MM
Recommended use Cleaning agent
Information on Manufacturer
CHEMSEARCH DIV. OF NCH CORP.
BOX 152170
IRVING, TX 75015

Product Code 5600
Chemical nature alcohol solution
Emergency Telephone Number

Telephone inquiry
972-579-2477

2. HAZARD IDENTIFICATION

Color Colorless **Physical State** Liquid **Odor** Alcohol

GHS Classification

Physical Hazards

Flammable aerosols	Category 1
Gases under pressure	Compressed Gas

Health Hazard

Aspiration Toxicity	Category 2
Acute Oral Toxicity	Category 4
Acute Dermal Toxicity	Category 4
Serious Eye Damage/Eye Irritation	Category 2A
Reproductive Toxicity	Category 1A
Carcinogenicity	Category 1A
Specific target organ systemic toxicity (single exposure)	Category 3
Specific target organ systemic toxicity (repeated exposure)	Category 2

Other hazards
None

Labeling
Signal Word
DANGER

Hazard Statements
H222 - Extremely flammable aerosol
H336 - May cause drowsiness or dizziness
H312 - Harmful in contact with skin
H319 - Causes serious eye irritation
H302 - Harmful if swallowed
H304 - May be fatal if swallowed and enters airways
H350 - May cause cancer
H360 - May damage fertility or the unborn child
H373 - May cause damage to organs through prolonged or repeated exposure
H280 - Contains gas under pressure; may explode if heated

Precautionary Statements
P202 - Do not handle until all safety precautions have been read and understood
P210 - Keep away from heat, sparks, open flames or hot surfaces.
P251 - Pressurized container: Do not pierce or burn, even after use
P260 - Do not breathe mist or vapor
P271 - Use in a well-ventilated area.
P270 - Do not eat, drink or smoke when using this product
P280 - Wear protective gloves, protective clothing and eye protection.
P264 - Wash face, hands and any exposed skin thoroughly after handling.
P304 + P340 - IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing.
P312 - Call a physician if unwell.
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.
P310 - Immediately call a physician
P301+ P330 + P331 - IF SWALLOWED: Rinse mouth. DO NOT induce vomiting. Call a physician if unwell.
P410 + P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F
P403 - Store in a well-ventilated place
P235 - Keep cool
P501 - Dispose of contents and container in accordance with applicable regulations.

5 % of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS-No	Weight %
Ethyl alcohol	64-17-5	40-70
Methyl acetate	79-20-9	10-30
Isopropyl alcohol	67-63-0	7-13
Carbon dioxide	124-38-9	3-7
Methyl alcohol	67-56-1	1-5
Methylisobutyl ketone	108-10-1	0.1-1

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 If inhaled, remove to fresh air. Get medical attention if symptoms occur.

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. Rinse mouth.

Notes to physician Inhalation of vapors in high concentration can cause narcotic effects and metabolic acidosis. May cause cardiac arrhythmia. Aspiration hazard if swallowed - can enter lungs and cause damage. May be fatal if swallowed and enters airways.

5. FIRE-FIGHTING MEASURES

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

Flammability Limits in Air % Solvent mixture. **Upper** 36 **Lower** 1.2

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 inch / 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.

Aerosol Level (NFPA 30B) - 2

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

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions Use personal protective equipment. Remove all sources of ignition. Ensure adequate ventilation. 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 Use clean non-sparking tools to collect absorbed material. Pick up and transfer to properly labeled containers.

Neutralizing Agent Not applicable.

7. HANDLING AND STORAGE

Handling Keep away from open flames, hot surfaces and sources of ignition. Do not breathe vapors or spray mist. Do not get in eyes, on skin or on clothing.

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

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

Ethyl alcohol	STEL: 1000 ppm	TWA: 1000 ppm TWA: 1900 mg/m^3	IDLH: 3300 ppm TWA: 1000 ppm TWA: 1900 mg/m^3
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: 200 ppm TWA: 610 mg/m^3
Isopropyl alcohol	TWA: 200 ppm STEL: 400 ppm	TWA: 400 ppm TWA: 980 mg/m^3	IDLH: 2000 ppm STEL 500 ppm STEL 1225 mg/m^3 TWA: 400 ppm TWA: 980 mg/m^3
Carbon dioxide	TWA: 5000 ppm STEL: 30000 ppm	TWA: 5000 ppm TWA: 9000 mg/m^3	IDLH: 40000 ppm STEL 30000 ppm STEL 54000 mg/m^3 TWA: 5000 ppm TWA: 9000 mg/m^3
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
Methylisobutyl ketone	TWA: 20 ppm STEL: 75 ppm	TWA: 100 ppm TWA: 410 mg/m^3	IDLH: 500 ppm STEL 75 ppm STEL 300 mg/m^3 TWA: 50 ppm TWA: 205 mg/m^3

Engineering Measures Ensure adequate ventilation, especially in confined areas. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction.

Personal Protective Equipment

Eye/Face Protection Tightly fitting safety goggles.

Skin Protection Wear suitable protective clothing, Impervious gloves.

Respiratory Protection In case of inadequate ventilation wear respiratory protection. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid	**Viscosity**	Non viscous
Color	Colorless	**Odor**	Alcohol
Odor Threshold	Not applicable	**Appearance**	Transparent
pH	Not applicable	**Specific Gravity**	0.68
Evaporation Rate	124.7 (Butyl acetate=1)	**Percent Volatile (Volume)**	100
VOC Content (%)	73	**VOC Content (g/L)**	496
Vapor Pressure	3782 mmHg @ 70°F	**Vapor Density**	1.5 (Air = 1.0)
Solubility	Completely soluble	**n-Octanol/Water Partition**	No data available
Melting Point/Range	No data available	**Decomposition Temperature**	No data available
Boiling Point/Range	150 °F / 66 °C	**Flammability (solid, gas)**	No data available
Flash Point	55 °F / 13 °C	**Method**	Seta closed cup
Autoignition Temperature	No information available.		
Flammability Limits in Air %	Solvent mixture.	**Upper** 36 **Lower** 1.2	

10. STABILITY AND REACTIVITY

Chemical Stability	Stable. Hazardous polymerization does not occur.
Conditions to Avoid	Keep away from open flames, hot surfaces, and sources of ignition
Incompatible Products	Strong oxidizing agents, Strong acids.
Hazardous Decomposition Products	Carbon oxides
Possibility of Hazardous Reactions	None under normal processing

11. TOXICOLOGICAL INFORMATION

Product Information

The following values are calculated based on chapter 3.1 of the GHS document (Rev. 3, 2009):

Oral LD50	6,459.13
Dermal LD50	3,046.27
Inhalation LC50	
Gas	18,168.80
Mist	152.86
Vapor	152.86

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. Substance may be absorbed through the skin which can contribute to damage to the optic nerve resulting in permanent vision changes, loss of vision, or total blindness.
Inhalation	May cause irritation of respiratory tract. Inhalation of vapors in high concentration can cause narcotic effects and metabolic acidosis. Inhalation may cause central nervous system effects. May cause central nervous system depression. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.
Ingestion	Ingestion may cause irritation to mucous membranes. Causes headache, drowsiness or other effects to the central nervous system. Acidosis. Lowered blood pressure. May be fatal or cause blindness if swallowed. Aspiration hazard if swallowed - can enter lungs and cause damage.
Chronic Toxicity	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. Contains a known or suspected carcinogen. Contains a known or suspected reproductive toxin.
Target Organ Effects	Blood, Central nervous system, Gastrointestinal tract, Liver, Reproductive System, Respiratory system, Eyes, Heart, Kidney, Skin, Spleen, Pancreas.
Aggravated Medical Conditions	Heart, Liver disorders, Neurological disorders, Skin disorders, Respiratory disorders, Kidney disorders.

Component Information

Acute Toxicity

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation	Draize Test	Other
Ethyl alcohol	no data available	no data available	= 124.7 mg/L (Rat) 4 h	no data available	no data available
Methyl acetate	> 5000 mg/kg (Rat)	> 5 g/kg (Rabbit)	= 16000 ppm (Rat) 4 h	no data available	no data available
Isopropyl alcohol	= 4396 mg/kg (Rat)	= 12800 mg/kg (Rabbit)	= 16000 ppm (Rat) 8 h	no data available	no data available
Carbon dioxide	no data available	no data available	no data available	no data available	no data available
Methyl alcohol	= 5628 mg/kg (Rat)	no data available	= 83.2 mg/L (Rat) 4 h	no data available	no data available
Methylisobutyl ketone	= 2080 mg/kg (Rat)	> 16000 mg/kg (Rabbit)	= 8.2 mg/L (Rat) 4 h	no data available	no data available

Chronic Toxicity

Component	Mutagenicity	Sensitization	Developmental Toxicity	Reproductive Toxicity	Target Organ Effects
Ethyl alcohol	no data available	no data available	yes	no data available	eyes, respiratory system, CNS, liver, skin, blood, reproductive system
Methyl acetate	no data available	no data available	no data available	no data available	eyes, CNS, respiratory system, skin
Isopropyl alcohol	no data available	no data available	no data available	no data available	eyes, respiratory system, skin, liver, kidney, CNS
Carbon dioxide	no data available	no data available	no data available	no data available	respiratory system,CVS
Methyl alcohol	no data available	no data available	x	no data available	eyes, CNS, skin, GI tract, respiratory system, kidney, spleen, liver, blood, pancreas, heart, reproductive system
Methylisobutyl ketone	no data available	no data available	no data available	no data available	eyes, CNS, respiratory system, liver, skin, kidneys

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

Component	ACGIH	IARC	NTP	OSHA	Other
Ethyl alcohol	not applicable	Group 1	Known	X	not applicable
Methyl acetate	not applicable	not applicable	not applicable	not applicable	not applicable
Isopropyl alcohol	not applicable	not applicable	not applicable	not applicable	not applicable
Carbon dioxide	not applicable	not applicable	not applicable	not applicable	not applicable
Methyl alcohol	not applicable	not applicable	not applicable	not applicable	not applicable
Methylisobutyl ketone	A3	Group 2B	not applicable	X	not applicable

12. ECOLOGICAL INFORMATION

Product Information No information available.

Component Information

Component	Toxicity to Algae	Toxicity to Fish	Microtox	Water Flea	log Pow
Ethyl alcohol	no data available	LC50 12.0 - 16.0 mL/L Oncorhynchus mykiss 96 h LC50 > 100 mg/L Pimephales promelas 96 h LC50 13400 - 15100 mg/L Pimephales promelas 96 h	EC50 = 34634 mg/L 30 min EC50 = 35470 mg/L 5 min	LC50 9268 - 14221 mg/L 48 h EC50= 10800 mg/L 24 h EC50= 2 mg/L 48 h	-0.32
Methyl acetate	EC50 > 120 mg/L Desmodesmus subspicatus 72 h	LC50 295 - 348 mg/L Pimephales promelas 96 h LC50 250 - 350 mg/L Brachydanio rerio 96 h	EC50 = 6000 mg/L 16 h EC50 = 6100 mg/L 30 min	EC50= 1026.7 mg/L 48 h	0.18
Isopropyl alcohol	EC50 > 1000 mg/L Desmodesmus subspicatus 96 h EC50 > 1000 mg/L Desmodesmus subspicatus 72 h	LC50 = 9640 mg/L Pimephales promelas 96 h LC50 = 11130 mg/L Pimephales promelas 96 h LC50 > 1400000 µg/L Lepomis macrochirus 96 h	EC50 = 35390 mg/L 5 min	EC50= 13299 mg/L 48 h	0.05
Carbon dioxide	no data available	no data available	no data available	no data available	N/A
Methyl alcohol	no data available	LC50 = 28200 mg/L Pimephales promelas 96 h LC50 > 100 mg/L Pimephales promelas 96 h LC50 19500 - 20700 mg/L Oncorhynchus mykiss 96 h LC50 18 - 20 mL/L Oncorhynchus mykiss 96 h LC50 13500 - 17600 mg/L Lepomis macrochirus 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
Methylisobutyl ketone	EC50 = 400 mg/L Pseudokirchneriella subcapitata 96 h	LC50 496 - 514 mg/L Pimephales promelas 96 h	EC50 = 79.6 mg/L 5 min	EC50= 170 mg/L 48 h	1.19

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

13. DISPOSAL CONSIDERATIONS

Product Disposal Dispose of in accordance with local regulations.
Container Disposal Contents under pressure. Do not puncture. Empty remaining contents. 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

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 Title 40 of the Code of Federal Regulations, Part 372

Component	CAS-No	Weight %	SARA 313 - Threshold Values
Isopropyl alcohol	67-63-0	7-13	1.0
Methyl alcohol	67-56-1	1-5	1.0
Methylisobutyl ketone	108-10-1	0.1-1	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
Ethyl alcohol	Not applicable	Not applicable
Methyl acetate	Not applicable	Not applicable
Isopropyl alcohol	Not applicable	Not applicable
Carbon dioxide	Not applicable	Not applicable
Methyl alcohol	5000 lb	Not applicable
Methylisobutyl ketone	5000 lb	Not applicable

16. OTHER INFORMATION

Prepared By	Sarah Williamson
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Reason for Revision	No information available.
Glossary	No information available.
List of References.	No information available.

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