# Material Safety Data Sheet: DYNA-CARB

Supercedes Date 12/14/2010 Issuing Date 09/26/2013

## 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name DYNA-CARB Recommended use Automotive Care Product Information on Manufacturer Partsmaster, Div of NCH Corp. P.O. Box 655326

Dallas, TX 75265-5326

Product Code 5643 Chemical nature Solvent mixture **Emergency Telephone Number** CHEMTREC® 800-424-9300

#### 2. HAZARDS IDENTIFICATION

**Emergency Overview DANGER POISON** Extremely flammable Harmful if inhaled Causes skin irritation

May cause sensitization by skin contact Causes eye irritation Harmful or fatal if swallowed May cause blindness Cannot be made non-poisonous

Contents under pressure

Color Colorless Physical State Liquid **Odor** Aromatic solvent

**Potential Health Effects Principle Route of Exposure Primary Routes of Entry** 

**Acute Effects** 

Eyes

Skin contact, Eye contact, Inhalation.

Inhalation, Ingestion, Skin Absorption.

Causes eye irritation. 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. May cause

Inhalation May cause irritation of respiratory tract. 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. Inhalation of vapors

in high concentration can cause narcotic effects and metabolic acidosis.

Ingestion Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Aspiration hazard if

swallowed - can enter lungs and cause damage. May be fatal or cause blindness if swallowed. Blood

disorder may occur after ingestion. Acidosis.

**Chronic Toxicity** Repeated and prolonged exposure to solvents may cause brain and nervous system damage.

> Inhalation of vapors in high concentration can cause narcotic effects and metabolic acidosis. May cause damage to the kidneys/liver/eyes/brain/digestive system/central nervous system if swallowed. Contains a known or suspected carcinogen. Suspect reproductive hazard - contains material which

may injure unborn child.

**Target Organ Effects** Respiratory system, Central nervous system, Peripheral Nervous System (PNS), Cardiovascular

system, Eyes, Ears, Pancreas, Gastrointestinal tract, Liver, Kidney, Blood, Lymphatic System, Spleen. **Aggravated Medical Conditions** Respiratory disorders, Skin disorders, Neurological disorders, Liver disorders, Kidney disorders,

Blood disorders, Heart disease.

**Potential Environmental Effects** See Section 12 for additional Ecological information.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS-No	Weight %
Xylenes (o-, m-, p- isomers)	1330-20-7	15-40
Petroleum distillates, hydrotreated light	64742-47-8	15-40
Methyl ethyl ketone	78-93-3	15-40
Ethyl benzene	100-41-4	7-13
Carbon dioxide	124-38-9	3-7
Methyl alcohol	67-56-1	1-5
1-Methyl-2-pyrrolidinone	872-50-4	1-5
Toluene	108-88-3	0.1-1

### 4. FIRST AID MEASURES

General advice Avoid breathing vapors, mist, or gas. Avoid contact with skin, eyes and clothing. Eye Contact Rinse thoroughly with plenty of water, also under the eyelids. Get medical attention if irritation develops

and persists.

**Skin Contact**Wash off immediately with plenty of water for at least 15 minutes. Remove contaminated clothing and

shoes. Get medical attention if irritation develops and persists. 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. Rinse mouth.

Notes to physician Aspiration hazard if swallowed - can enter lungs and cause damage. May be fatal if swallowed and

enters airways.

#### 5. FIRE-FIGHTING MEASURES

Flash Point 65 °F / 18 °C Method Seta closed cup Autoignition Temperature No information available.
Flammability Limits in Air % Solvent mixture. Upper 36.5 Lower 0.6

Flammability Limits in Air % Solvent mixture. Suitable Extinguishing Media

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

#### Specific hazards arising from the chemical

Flame extension: >30 inches / >76 cm and Burnback: 5 inch / 13 cm. Solvent vapors are heavier than air and may spread along floors. Vapors may ignite and explode. Material can create slippery conditions.

#### **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) - 3

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

## 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition.

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. Avoid breathing vapors, mist or

gas. Avoid contact with skin, eyes and clothing.

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

ventilated place.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### **Exposure Guidelines**

Component	ACGIH TLV	OSHA PEL	NIOSH
Xylenes (o-, m-, p- isomers)	TWA: 100 ppm	TWA: 100 ppm	No data available
	STEL: 150 ppm	TWA: 435 mg/m <sup>3</sup>	
Petroleum distillates, hydrotreated light	5 mg/m <sup>3</sup> as oil mist	10 mg/m <sup>3</sup> as oil mist	No data available
Methyl ethyl ketone	TWA: 200 ppm	TWA: 200 ppm	IDLH: 3000 ppm
	STEL: 300 ppm	TWA: 590 mg/m <sup>3</sup>	STEL 300 ppm
		_	STEL 885 mg/m <sup>3</sup>
			TWA: 200 ppm
			TWA: 590 mg/m <sup>3</sup>
Ethyl benzene	TWA: 20 ppm	TWA: 100 ppm	IDLH: 800 ppm
		TWA: 435 mg/m <sup>3</sup>	STEL 125 ppm
			STEL 545 mg/m <sup>3</sup>
			TWA: 100 ppm
			TWA: 435 mg/m <sup>3</sup>

Carbon dioxide	TWA: 5000 ppm STEL: 30000 ppm	TWA: 5000 ppm TWA: 9000 mg/m <sup>3</sup>	IDLH: 40000 ppm STEL 30000 ppm STEL 54000 mg/m <sup>3</sup> TWA: 5000 ppm TWA: 9000 mg/m <sup>3</sup>
Methyl alcohol	TWA: 200 ppm Skin STEL: 250 ppm	TWA: 200 ppm TWA: 260 mg/m <sup>3</sup>	IDLH: 6000 ppm STEL 250 ppm STEL 325 mg/m <sup>3</sup> TWA: 200 ppm TWA: 260 mg/m <sup>3</sup>
1-Methyl-2-pyrrolidinone	No data available	No data available	No data available
Toluene	TWA: 20 ppm	TWA: 200 ppm Ceiling: 300 ppm	IDLH: 500 ppm STEL 150 ppm STEL 560 mg/m <sup>3</sup> TWA: 100 ppm TWA: 375 mg/m <sup>3</sup>

**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

Skin Protection
Respiratory Protection

Tightly fitting safety goggles.

Wear suitable protective clothing, Impervious gloves.

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** 

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 Colorless Odor Aromatic solvent Color Transparent Not applicable **Appearance** pН **Specific Gravity** 0.633 **Evaporation Rate** 122.96 (Butyl acetate=1)

Percent Volatile (Volume) 100 VOC Content (%) 95

VOC Content (g/L) 601 Vapor Pressure 7277.83 mmHg @ 70°F

Vapor Density 1.5 (Air = 1.0) Solubility Negligible

Boiling Point/Range > 200 °F / 93 °C

## 10. STABILITY AND REACTIVITY

Chemical Stability
Conditions to Avoid
Incompatible Products
Hazardous Decomposition Products
Possibility of Hazardous Reactions

Stable. Hazardous polymerization does not occur.

Keep away from open flames, hot surfaces, and sources of ignition

Strong oxidizing agents, Reducing agents, Acids.

Strong oxidizing agents, Reducing agents, Acids.
Carbon oxides, Nitrogen oxides (NOx), Hydrocarbons.

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
Xylenes (o-, m-, p- isomers)	= 4300 mg/kg ( Rat )	> 1700 mg/kg ( Rabbit )	= 47635 mg/L (Rat) 4 h	no data available	no data available
Petroleum distillates, hydrotreated light	> 5000 mg/kg ( Rat )	> 2000 mg/kg ( Rabbit )	> 5.2 mg/L ( Rat ) 4 h	no data available	no data available
Methyl ethyl ketone	no data available	no data available	= 23500 mg/m <sup>3</sup> ( Rat ) 8 h	no data available	no data available
Ethyl benzene	= 3500 mg/kg ( Rat )	= 15354 mg/kg ( Rabbit )	= 17.2 mg/L ( Rat ) 4 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
1-Methyl-2-pyrrolidinone	= 3598 mg/kg ( Rat )	= 8 g/kg ( Rabbit )	= 3.1 mg/L ( Rat ) 4 h	no data available	no data available
Toluene	= 636 mg/kg ( Rat )	= 8390 mg/kg ( Rabbit ) = 12124 mg/kg ( Rat )	= 12.5 mg/L ( Rat ) 4 h > 26700 ppm ( Rat ) 1 h	no data available	no data available

**Chronic Toxicity** 

Component	Mutagenicity	Sensitization	Developmental Toxicity	Reproductive Toxicity	Target Organ Effects
Xylenes (o-, m-, p- isomers)	no data available	no data available	yes	no data available	heart, lung, CNS, PNS,
					respiratory system, ears, liver, kidney

Petroleum distillates, hydrotreated light	no data available	no data available	no data available	no data available	respiratory system, liver, kidney, CNS
Methyl ethyl ketone	no data available	no data available	no data available	no data available	eyes, CNS, PNS, respiratory system, skin
Ethyl benzene	no data available	no data available	yes	no data available	eyes, CNS, respiratory system, skin
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
1-Methyl-2-pyrrolidinone	no data available	Skin sensitization	no data available	no data available	Respiratory system, immune system, spleen, adrenal gland, kidney, liver
Toluene	no data available	no data available	yes	yes	CNS, eyes, kidneys, liver, respiratory system, skin, reproductive system

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

our onlogomony	The table below indicates whether each agency has noted an			ingrodioni do d o	aroniogori.
Component	ACGIH	IARC	NTP	OSHA	Other
Xylenes (o-, m-, p- isomers)	not applicable	not applicable	not applicable	not applicable	not applicable
Petroleum distillates, hydrotreated light	not applicable	not applicable	not applicable	not applicable	not applicable
Methyl ethyl ketone	not applicable	not applicable	not applicable	not applicable	not applicable
Ethyl benzene	A3	Group 2B	not applicable	X	X
Carbon dioxide	not applicable	not applicable	not applicable	not applicable	not applicable
Methyl alcohol	not applicable	not applicable	not applicable	not applicable	not applicable
1-Methyl-2-pyrrolidinone	not applicable	not applicable	not applicable	not applicable	not applicable
Toluene	not applicable	not applicable	not applicable	not applicable	not applicable

# 12. ECOLOGICAL INFORMATION

Product Information
Component Information

No information available.

Component	Toxicity to Algae	Toxicity to Fish	Microtox	Water Flea	log Pow
Xylenes (o-, m-, p- isomers)	no data available	Toxicity to Fish  LC50 = 13.4 mg/L Pimephales promelas 96 h LC50 2.661 - 4.093 mg/L Oncorhynchus mykiss 96 h LC50 13.5 - 17.3 mg/L Oncorhynchus mykiss 96 h LC50 13.1 - 16.5 mg/L Lepomis macrochirus 96 h LC50 = 19 mg/L Lepomis macrochirus 96 h LC50 7.711 - 9.591 mg/L Lepomis macrochirus 96 h LC50 23.53 - 29.97 mg/L Pimephales promelas 96 h LC50 = 780 mg/L Cyprinus carpio 96 h LC50 > 780 mg/L Cyprinus carpio 96 h LC50 30.26 - 40.75 mg/L Poecilia	EC50 = 0.0084 mg/L 24 h		2.77 - 3.18
Petroleum distillates, hydrotreated light	no data available	reticulata 96 h  LC50 = 45 mg/L Pimephales promelas 96 h  LC50 = 2.2 mg/L Lepomis macrochirus 96 h  LC50 = 2.4 mg/L Oncorhynchus mykiss 96 h	no data available	LC50= 4720 mg/L 96 h	N/A
Methyl ethyl ketone	no data available	LC50 3130 - 3320 mg/L Pimephales promelas 96 h	EC50 = 3403 mg/L 30 min EC50 = 3426 mg/L 5 min	EC50> 520 mg/L 48 h EC50= 5091 mg/L 48 h EC50 4025 - 6440 mg/L 48 h	0.29
Ethyl benzene	EC50 = 4.6 mg/L Pseudokirchneriella subcapitata 72 h EC50 > 438 mg/L Pseudokirchneriella	LC50 = 9.6 mg/L Poecilia reticulata 96 h LC50 11.0 - 18.0 mg/L Oncorhynchus mykiss 96 h LC50 = 4.2 mg/L Oncorhynchus	EC50 = 96 mg/L 24 h	EC50 1.8 - 2.4 mg/L 48 h	3.118

	subcapitata 96 h EC50 2.6 - 11.3 mg/L Pseudokirchneriella subcapitata 72 h EC50 1.7 - 7.6 mg/L Pseudokirchneriella subcapitata 96 h	mykiss 96 h LC50 7.55 - 11 mg/L Pimephales promelas 96 h LC50 = 32 mg/L Lepomis macrochirus 96 h LC50 9.1 - 15.6 mg/L Pimephales promelas 96 h			
Carbon dioxide	no data available	no data available	no data available	no data available	N/A
Methyl alcohol	no data available	promelas 96 h	EC50 = 39000 mg/L 25 min EC50 = 40000 mg/L 15 min EC50 = 43000 mg/L 5 min		-0.77
1-Methyl-2-pyrrolidinone	EC50 > 500 mg/L Desmodesmus subspicatus 72 h	LC50 = 832 mg/L Lepomis macrochirus 96 h LC50 = 4000 mg/L Leuciscus idus 96 h LC50 = 1072 mg/L Pimephales promelas 96 h LC50 = 1400 mg/L Poecilia reticulata 96 h	no data available	EC50= 4897 mg/L 48 h	-0.46
Toluene	EC50 > 433 mg/L Pseudokirchneriella subcapitata 96 h EC50 = 12.5 mg/L Pseudokirchneriella subcapitata 72 h	LC50 15.22 - 19.05 mg/L Pimephales promelas 96 h LC50 = 12.6 mg/L Pimephales promelas 96 h LC50 5.89 - 7.81 mg/L Oncorhynchus mykiss 96 h LC50 14.1 - 17.16 mg/L Oncorhynchus mykiss 96 h LC50 = 5.8 mg/L Oncorhynchus mykiss 96 h LC50 11.0 - 15.0 mg/L Lepomis macrochirus 96 h LC50 = 54 mg/L Oryzias latipes 96 h LC50 = 28.2 mg/L Poecilia reticulata 96 h LC50 50.87 - 70.34 mg/L Poecilia reticulata 96 h	, and the second	EC50 5.46 - 9.83 mg/L 48 h EC50= 11.5 mg/L 48 h	2.65

Persistence and Degradability

Bioaccumulation Mobility No information available. No information available. 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

Proper Shipping Name Consumer commodity

Hazard Class ORM-D

**Description** Consumer commodity, ORM-D

TDG

Proper shipping nameAerosolsHazard Class2.1UN-NoUN1950

**Description** UN1950, AEROSOLS,2.1, LTD QTY

ICAO

UN-No UN1950
Proper Shipping Name Aerosols
Hazard Class 2.1

Shipping Description UN1950, AEROSOLS, 2.1, LTD QTY

IATA

**UN-No** UN1950

Proper Shipping Name Aerosols, flammable

Hazard Class 2.1 ERG Code 10L

Shipping Description UN1950, Aerosols, flammable, 2.1, LTD QTY

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
Xylenes (o-, m-, p- isomers)	1330-20-7	15-40	1.0
Ethyl benzene	100-41-4	7-13	0.1
Methyl alcohol	67-56-1	1-5	1.0
1-Methyl-2-pyrrolidinone	872-50-4	1-5	1.0
Toluene	108-88-3	0.1-1	1.0

SARA 311/312 Hazardous Categorization

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

## **CERCLA**

Component	Hazardous Substances RQs	CERCLA EHS RQs
Xylenes (o-, m-, p- isomers)	100 lb	Not applicable
Petroleum distillates, hydrotreated light	Not applicable	Not applicable
Methyl ethyl ketone	5000 lb	Not applicable
Ethyl benzene	1000 lb	Not applicable
Carbon dioxide	Not applicable	Not applicable
Methyl alcohol	5000 lb	Not applicable
1-Methyl-2-pyrrolidinone	Not applicable	Not applicable
Toluene	1000 lb	Not applicable

# U.S. State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals

Camornia Proposition 65 This product contains the following Proposition 65 chemicals		
Component	CAS-No	California Prop. 65
Ethyl benzene	100-41-4	carcinogen
Toluene	108-88-3	developmental toxicity
		female reproductive toxicity
Methyl alcohol	67-56-1	developmental toxicity
Benzene	71-43-2	carcinogen
		developmental toxicity
		male reproductive toxicity
1-Methyl-2-pyrrolidinone	872-50-4	developmental toxicity

#### 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.



5643 - DYNA-CARB Issuing Date 09/26/2013

#### 16. OTHER INFORMATION

Prepared By Devon Kebodeaux Supercedes Date 12/14/2010 Issuing Date 09/26/2013

Reason for RevisionNo information available.GlossaryNo information available.List of References.No information available.

Partsmaster, Div of NCH Corp. assumes no responsibility for personal injury or property damage caused by the use, storage, or disposal of the product in a manner not recommended on the product label. Users assume all risks associated with such unrecommended use, storage or disposal of the product. The information provided on this document is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.