## Safety Data Sheet



#### **Section 1: Identification**

Product identifier	
Product Name	<ul> <li>NAPA Cooling System Rapid Flush</li> </ul>
Synonyms	• 590303
Product Code	• 1500
Relevant identified uses of	of the substance or mixture and uses advised against
Recommended use	Clean harmful rust, scale and other deposits from cooling system
Restrictions on use	<ul> <li>Read and follow label directions only</li> </ul>
Details of the supplier of t	he safety data sheet
Manufacturer	Gold Eagle Co.
Telephone (General)	4400 S. Kildare Avenue Chicago, IL 60632-4372 United States http://www.goldeagle.com/
,	
Emergency telephone nu	mber
Manufacturer	• 1-800-535-5053 - (INFOTRAC #22283)

## **Section 2: Hazard Identification**

#### United States (US)

According to: OSHA 29 CFR 1910.1200 HCS

#### Classification of the substance or mixture

OSHA HCS 2012

Reproductive Toxicity 2
 Specific Target Organ Toxicity Repeated Exposure 2

#### Label elements OSHA HCS 2012

## WARNING



Hazard statements •

Suspected of damaging fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure.

#### **Precautionary statements**

Prevention •

Obtain special instructions before use.
 Do not handle until all safety precautions have been read and understood.
 Do not breathe mists, vapours, and/or spray.
 Wear protective gloves/protective clothing/eye protection/face protection.

Response •	IF exposed or concerned: Get medical advice/attention. Get medical advice/attention if you feel unwell.
Storage/Disposal •	Store locked up. Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.
Other hazards	
OSHA HCS 2012 •	Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is considered hazardous.

## Other information



# Section 3 - Composition/Information on Ingredients

#### Substances

• Material does not meet the criteria of a substance.

## **Mixtures**

Composition				
Chemical Name	Identifiers	%	LD50/LC50	Classifications According to Regulation/Directive
Water	<b>CAS</b> :7732- 18-5	90% TO 100%	NDA	OSHA HCS 2012: Not Hazardous
Proprietary	Proprietary	0% TO 4%	NDA	OSHA HCS 2012: Not Classified
Proprietary	Proprietary	0% TO 4%	NDA	OSHA HCS 2012: Skin Corr. 1B; Eye Dam. 1
Proprietary	Proprietary	0% TO 4%	NDA	OSHA HCS 2012: Not Classified
Proprietary	Proprietary	0% TO 4%	NDA	OSHA HCS 2012: Not Classified
Ethylene glycol monobutyl ether	<b>CAS:</b> 111- 76-2	0% TO 2%	NDA	<b>OSHA HCS 2012:</b> Flam. Liq. 4; Acute Tox. 3 (orl); Acute Tox. 3 (skn); Acute Tox. 3 (inhl); Eye Irrit. 2; Repr. 2; STOT SE 3: Narc.; STOT SE 3: Resp. Irrit. (Orl); STOT RE 2 (Blood, Inhl, Orl, Skn)

## **Section 4: First-Aid Measures**

# Description of first aid measures

Inhalation

Skin

- Move victim to fresh air. Administer oxygen if breathing is difficult. Give artificial respiration if victim is not breathing. If signs/symptoms continue, get medical attention.
- · Wash skin with soap and water. Take off contaminated clothing and wash before

Products

Advice for firefighters

Eye Ingestion	<ul> <li>reuse. If irritation develops and persists, get medical attention.</li> <li>In case of contact with substance, immediately flush eyes with running water for at least 20 minutes. If eye irritation persists: Get medical advice/attention.</li> <li>Do NOT induce vomiting. Obtain medical attention immediately if ingested.</li> </ul>
Most important sympto	oms and effects, both acute and delayed
	<ul> <li>Refer to Section 11 - Toxicological Information.</li> </ul>
Indication of any imme	diate medical attention and special treatment needed
Notes to Physician	<ul> <li>All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.</li> </ul>
Section 5: Fire-Fightin	ng Measures
Section 5: Fire-Fightin Extinguishing media	ng Measures
Extinguishing media	dia • Use carbon dioxide, dry chemical, foam and/or water fog.
Extinguishing media	dia • Use carbon dioxide, dry chemical, foam and/or water fog.
Extinguishing media Suitable Extinguishing Med Unsuitable Extinguishing Media	dia • Use carbon dioxide, dry chemical, foam and/or water fog.
Extinguishing media Suitable Extinguishing Med Unsuitable Extinguishing Media Special hazards arising	<ul><li>dia • Use carbon dioxide, dry chemical, foam and/or water fog.</li><li>• No data available.</li></ul>

Structural firefighters' protective clothing provides limited protection in fire situations
 ONLY; it is not effective in spill situations where direct contact with the substance is

LARGE FIRES: Cool containers with flooding quantities of water until well after fire is

possible. Wear chemical protective clothing that is specifically recommended by the

Wear positive pressure self-contained breathing apparatus (SCBA).

manufacturer. It may provide little or no thermal protection.

#### Section 6 - Accidental Release Measures

out.

#### Personal precautions, protective equipment and emergency procedures

-	•••••
Personal Precautions	<ul> <li>Ventilate enclosed areas. Do not walk through spilled material. Use appropriate Personal Protective Equipment (PPE) Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.</li> </ul>
Emergency Procedures	<ul> <li>As an immediate precautionary measure, isolate spill or leak area for at least 50 meters (150 feet) in all directions. Stay upwind. Keep unauthorized personnel away.</li> </ul>
Environmental preca	autions
	<ul> <li>Avoid run off to waterways and sewers.</li> </ul>
Methods and materia	al for containment and cleaning up
Containment/Clean-up Measures	<ul> <li>Stop leak if you can do it without risk.</li> <li>SMALL SPILLS: Take up with sand or other non-combustible absorbent material and place into containers for later disposal.</li> </ul>

#### LARGE SPILLS: Dike far ahead of spill for later disposal.

## Section 7 - Handling and Storage

## Precautions for safe handling

#### Handling

 Use only with adequate ventilation. Wear appropriate personal protective equipment, avoid direct contact. Do not breathe mist, vapours and/or spray. Avoid contact with skin, eyes, and clothing. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco.

#### Conditions for safe storage, including any incompatibilities

Storage

• Keep container closed. Store in a cool, dry, well-ventilated place. Do not store in unmarked containers or storage devices.

#### **Section 8 - Exposure Controls/Personal Protection**

#### **Control parameters**

Exposure Limits/Guidelines				
	Result	ACGIH	NIOSH	OSHA
Ethylene glycol monobutyl ether (111-76-2)	TWAs	20 ppm TWA	5 ppm TWA; 24 mg/m3 TWA	50 ppm TWA; 240 mg/m3 TWA
Proprietary	TWAs	Not established	Not established	2 mg/m3 TWA
(Proprietary)	Ceilings	2 mg/m3 Ceiling	2 mg/m3 Ceiling	Not established

#### Exposure controls

Engineering Measures/Controls	Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits f exposure limits have not been established, maintain airborne levels to an acceptab evel.	
Personal Protective Equipme		
Respiratory	n case of insufficient ventilation, wear suitable respiratory equipment. Follow the OSHA respirator regulations found in 29 CFR 1910.134. Use a NIOSH/MSHA approved respirator if exposure limits are exceeded or symptoms are experienced.	
Eye/Face	Near chemical splash safety goggles.	
Skin/Body	Near appropriate gloves.	
Environmental Exposure Controls	Controls should be engineered to prevent release to the environment, including procedures to prevent spills, atmospheric release and release to waterways. Follow pest practice for site management and disposal of waste.	
Key to abbreviations		

ACGIH = American Conference of Governmental Industrial Hygiene

NIOSH = National Institute of Occupational Safety and Health

OSHA = Occupational Safety and Health Administration

TWA = Time-Weighted Averages are based on 8h/day, 40h/week exposures

# **Section 9 - Physical and Chemical Properties**

## Information on Physical and Chemical Properties

Material Description				
Physical Form	Liquid	Appearance/Description	Water white, slightly hazy liquid.	
Color	Water white, slightly hazy.	Odor	No data available	
Odor Threshold	No data available			
General Properties				
Boiling Point	212 F(100 C)	Melting Point/Freezing Point	No data available	
Decomposition Temperature	No data available	рН	8 to 10	

Specific Gravity/Relative Density	= 1.08 Water=1	Water Solubility	Soluble 100 %
Viscosity	3 Centistoke (cSt, cS) or mm2/sec @ 40 C(104 F)		
Volatility			
Vapor Pressure	No data available	Vapor Density	< 1 Air=1
Evaporation Rate	No data available		
Flammability			
Flash Point	Water based	UEL	No data available
LEL	No data available	Autoignition	No data available
Flammability (solid, gas)	No data available		

# Section 10: Stability and Reactivity

Reactivity	
-	<ul> <li>No dangerous reaction known under conditions of normal use.</li> </ul>
Chemical stability	
-	<ul> <li>Stable under normal temperatures and pressures.</li> </ul>
Possibility of hazardous	reactions
-	Hazardous polymerization will not occur.
Conditions to avoid	
	• None
Incompatible materials	
·	Strong acids.
Hazardous decompositio	on products
•	• None

# Section 11 - Toxicological Information

#### Information on toxicological effects

		Components
<i>Proprietary</i> (0% TO 4%)	Proprietary	Irritation: Eye-Rabbit • 1 % • Severe irritation; Skin-Rabbit • 500 mg 24 Hour(s) • Severe irritation; Mutagen: Cytogenetic analysis • Unreported Route-Hamster • Lung (Somatic cell) • 10 mmol/L
Ethylene glycol monobutyl ether (0% TO 2%)	111-76-2	Acute Toxicity: Ingestion/Oral-Rat LD50 • 250 mg/kg; Ingestion/Oral-Man TDLo • 132 mg/kg; Behavioral:Sleep; Kidney, Ureter, and Bladder:Hematuria; Nutritional and Gross Metabolic:Changes in Chemistry or Temperature:Metabolic acidosis; Ingestion/Oral-Woman TDLo • 7813 µL/kg; Behavioral:Coma; Vascular:BP lowering not characterized in autonomic section; Nutritional and Gross Metabolic:Changes in Chemistry or Temperature:Metabolic acidosis; Inhalation-Rat LC50 • 450 ppm 4 Hour(s); Behavioral:Ataxia; Nutritional and Gross Metabolic:Gross Metabolite Changes:Weight loss or decreased weight gain; Skin-Rabbit LD50 • 220 mg/kg; Irritation: Eye-Rabbit • 100 mg 24 Hour(s) • Moderate irritation; Skin-Rabbit • 500 mg-Open • Mild irritation; Multi-dose Toxicity: Inhalation-Monkey TCLo • 500 mg/m <sup>3</sup> 7 Hour(s) 12 Week(s)-Intermittent; Blood:Normocytic anemia; Blood:Changes in serum composition (e.g., TP, bilirubin cholesterol); Inhalation-Rat TCLo • 10 mg/m <sup>3</sup> 90 Day(s)-Continuous; Endocrine:Hypoglycemia; Blood:Normocytic anemia; Nutritional and Gross Metabolic:Gross Metabolite Changes:Weight loss or decreased weight gain; Inhalation-Rat TCLo • 10 mg/m <sup>3</sup> 24 Hour(s) 13 Week(s)-Continuous; Endocrine:Hypoglycemia; Blood:Changes in erythrocyte (RBC) count; Biochemical:Enzyme inhibition, induction, or change in blood or tissue levels:Transaminases; Skin-Rabbit TDLo • 4500 µL/kg 9 Day(s)-Intermittent; Liver:Changes in liver weight; Blood:Pigmented or nucleated red blood cells; Blood:Changes in erythrocyte (RBC) count;

		Reproductive: Ingestion/Oral-Rat TDLo • 600 mg/kg (9-11D preg); <i>Reproductive Effects:Effects on Embryo or</i> <i>Fetus</i> :Fetal death; Inhalation-Rabbit TCLo • 200 ppm 6 Hour(s)(6-18D preg); <i>Reproductive Effects:Maternal</i> <i>Effects</i> :Uterus, cervix, vagina; <i>Reproductive Effects:Effects on Fertility</i> :Pre-implantation mortality; Inhalation- Rabbit TCLo • 100 ppm 6 Hour(s)(6-18D preg); <i>Reproductive Effects:Specific Developmental</i> <i>Abnormalities</i> :Cardiovascular (circulatory) system; Inhalation-Rat TCLo • 483 mg/m <sup>3</sup> (6H/6-15D preg); <i>Reproductive Effects:Effects on Fertility</i> :Pre-implantation mortality; <i>Reproductive Effects:Effects on</i> <i>Fertility</i> :Post-implantation mortality; <i>Reproductive Effects:Specific Developmental</i> <i>Abnormalities</i> :Musculoskeletal system; Tumorigen / Carcinogen: Inhalation-Mouse TCLo • 250 ppm 6 Hour(s) 2 Year(s)-Intermittent; <i>Tumorigenic</i> :Carcinogenic by RTECS criteria; <i>Liver</i> :Tumors; Inhalation-Rat TCLo • 125 ppm 6 Hour(s) 2 Year (s)-Intermittent; <i>Tumorigenic</i> :Equivocal tumorigenic agent by RTECS criteria; <i>Endocrine</i> :Tumors
<i>Proprietary</i> (0% TO 4%)	Proprietary	Multi-dose Toxicity: Skin-Rat TDLo • 3380 mg/kg 17 Day(s)-Intermittent; Liver: Changes in liver weight

GHS Properties	Classification
Respiratory sensitization	OSHA HCS 2012 • No data available
Serious eye damage/Irritation	OSHA HCS 2012 • No data available
Acute toxicity	OSHA HCS 2012 • No data available
Aspiration Hazard	OSHA HCS 2012 • No data available
Carcinogenicity	OSHA HCS 2012 • No data available
Skin corrosion/Irritation	OSHA HCS 2012 • No data available
Skin sensitization	OSHA HCS 2012 • No data available
STOT-RE	OSHA HCS 2012 • Specific Target Organ Toxicity Repeated Exposure 2
STOT-SE	OSHA HCS 2012 • No data available
Toxicity for Reproduction	OSHA HCS 2012 • Toxic to Reproduction 2
Germ Cell Mutagenicity	OSHA HCS 2012 • No data available

## **Potential Health Effects**

<ul> <li>Under normal conditions of use, no health effects are expected.</li> </ul>
No data available.
<ul> <li>Under normal conditions of use, no health effects are expected.</li> </ul>
No data available.
<ul> <li>Under normal conditions of use, no health effects are expected.</li> </ul>
No data available.
<ul> <li>Under normal conditions of use, no health effects are expected.</li> </ul>
No data available.
<ul> <li>In experiments with rats, Ethylene glycol monobutyl ether causes severe acute hemolytic anemia resulting in significant increase in the concentration of free plasma hemoglobin.</li> </ul>
<ul> <li>Animal tests for components have shown adverse reproductive effects.</li> </ul>

LC = Lethal Concentration LD = Lethal Dose TC = Toxic Concentration TD = Toxic Dose

Section 12 - Ecological Information	
Toxicity	
	<ul> <li>Non-mandatory section - information about this substance not complied for this reason.</li> </ul>
Persistence and degrada	ability
	<ul> <li>Non-mandatory section - information about this substance not complied for this reason.</li> </ul>
<b>Bioaccumulative potenti</b>	al
	<ul> <li>Non-mandatory section - information about this substance not complied for this reason.</li> </ul>
Mobility in Soil	
-	<ul> <li>Non-mandatory section - information about this substance not complied for this reason.</li> </ul>
Other adverse effects	
	<ul> <li>Non-mandatory section - information about this substance not complied for this reason.</li> </ul>

#### Section 13 - Disposal Considerations

#### Waste treatment methods

Product waste

**Packaging waste** 

- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.
- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

## Section 14 - Transport Information

	UN number	UN proper shipping name	Transport hazard class(es)	Packing group	Environmental hazards
DOT	NDA	Not Regulated	NDA	NDA	NDA

Special precautions for user • None specified.

Transport in bulk according • No data available to Annex II of MARPOL 73/78 and the IBC Code

#### Section 15 - Regulatory Information

# Safety, health and environmental regulations/legislation specific for the substance or mixture

SARA Hazard Classifications • Chronic

Inventory		
Component	CAS	TSCA
Proprietary	Proprietary	Yes
Ethylene glycol monobutyl ether	111-76-2	Yes
Proprietary	Proprietary	Yes
Proprietary	Proprietary	Yes
Proprietary	Proprietary	Yes
Sodium sulfate	7757-82-6	Yes

# **United States**

hor		
Ibor U.S OSHA - Process Safety Management - Highly Hazard	lous Chemicals	
• Proprietary	Proprietary Not Listed	
• Proprietary	Proprietary Not Listed	
• Proprietary	Proprietary Not Listed	
Ethylene glycol monobutyl ether	111-76-2 Not Listed	
Proprietary	Proprietary Not Listed	
Sodium sulfate	7757-82-6 Not Listed	
U.S OSHA - Specifically Regulated Chemicals		
Proprietary	Proprietary Not Listed	
• Proprietary	Proprietary Not Listed	
Proprietary	Proprietary Not Listed	
Ethylene glycol monobutyl ether	111-76-2 Not Listed	
Proprietary	Proprietary Not Listed	
Sodium sulfate	7757-82-6 Not Listed	
vironment J.S CAA (Clean Air Act) - 1990 Hazardous Air Pollutants		
Proprietary	Proprietary Not Listed	
Proprietary	Proprietary Not Listed	
Proprietary	Proprietary Not Listed	
<ul> <li>Ethylene glycol monobutyl ether</li> </ul>	111-76-2 Not Listed	
Proprietary	Proprietary Not Listed	
Sodium sulfate	7757-82-6 Not Listed	
J.S CAA (Clean Air Act) - Accidental Release Prevention	- Flammable Substances	
• Proprietary	Proprietary Not Listed	
• Proprietary	Proprietary Not Listed	
Proprietary	Proprietary Not Listed	
Ethylene glycol monobutyl ether	111-76-2 Not Listed	
• Proprietary	Proprietary Not Listed	
Sodium sulfate	7757-82-6 Not Listed	
U.S CAA (Clean Air Act) - Accidental Release Prevention	- Toxic Substances	
• Proprietary	Proprietary Not Listed	
Proprietary	Proprietary Not Listed	
• Proprietary	Proprietary Not Listed	
Ethylene glycol monobutyl ether	111-76-2 Not Listed	
Proprietary	Proprietary Not Listed	
· Frophetary	r topriciary Not Listed	

Sodium sulfate	7757-82-6	Not Listed
U.S CERCLA/SARA - Hazardous Substances and their Reportable Quantities		
Proprietary	Proprietary	Not Listed
• Proprietary	Proprietary	Not Listed
• Proprietary	Proprietary	Not Listed
Ethylene glycol monobutyl ether	111-76-2	Not Listed
		1000 lb final RQ; 454 kg final
• Proprietary	Proprietary	RQ
Sodium sulfate	7757-82-6	Not Listed
U.S CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs		
Proprietary	Proprietary	Not Listed
Proprietary	Proprietary	Not Listed
Proprietary	Proprietary	Not Listed
Ethylene glycol monobutyl ether	111-76-2	Not Listed
Proprietary	Proprietary	Not Listed
Sodium sulfate	7757-82-6	Not Listed
U.S CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs	Proprietory	Not Listed
Proprietary	Proprietary Bropriotory	Not Listed
Proprietary	Proprietary Proprietory	
Proprietary     Thulana shusel menshutul other	Proprietary	Not Listed
Ethylene glycol monobutyl ether	111-76-2 Dramintari	Not Listed
Proprietary	Proprietary	Not Listed
Sodium sulfate	7757-82-6	Not Listed
U.S CERCLA/SARA - Section 313 - Emission Reporting		
Proprietary	Proprietary	Not Listed
Proprietary	Proprietary	Not Listed
Proprietary	Proprietary	Not Listed
Ethylene glycol monobutyl ether	111-76-2	Not Listed
Proprietary	Proprietary	Not Listed
Sodium sulfate	7757-82-6	Not Listed
U.S CERCLA/SARA - Section 313 - PBT Chemical Listing		
Proprietary	Proprietary	Not Listed
• Proprietary	Proprietary	Not Listed
• Proprietary	Proprietary	Not Listed
Ethylene glycol monobutyl ether	111-76-2	Not Listed
Proprietary	Proprietary	Not Listed
Sodium sulfate	7757-82-6	Not Listed
U.S CWA (Clean Water Act) - Hazardous Substances		
Proprietary	Proprietary	Not Listed
• Proprietary	Proprietary	Not Listed
• Proprietary	Proprietary	Not Listed
Ethylene glycol monobutyl ether	111-76-2	Not Listed
• Proprietary	Proprietary	
Sodium sulfate	7757-82-6	Not Listed
U.S CWA (Clean Water Act) - Toxic Pollutants		
• Proprietary	Proprietary	Not Listed
Proprietary	Proprietary	Not Listed
Proprietary	Proprietary	Not Listed
Preparation Date: 24/September/2015		Format: GHS Language: English (U

- Ethylene glycol monobutyl ether
- Proprietary
- Sodium sulfate

#### **United States - California**

vironment U.S California - Proposition 65 - Carcinogens List		
Proprietary	Proprietary	Not Listed
• Proprietary	Proprietary	Not Listed
Proprietary	Proprietary	Not Listed
Ethylene glycol monobutyl ether	111-76-2	Not Listed
Proprietary	Proprietary	Not Listed
Sodium sulfate	7757-82-6	Not Listed
U.S California - Proposition 65 - Developmental Toxicity		
Proprietary	Proprietary	Not Listed
• Proprietary	Proprietary	Not Listed
• Proprietary	Proprietary	Not Listed
Ethylene glycol monobutyl ether	111-76-2	Not Listed
Proprietary	Proprietary	Not Listed
Sodium sulfate	7757-82-6	Not Listed
U.S California - Proposition 65 - Maximum Allowable Dose Levels (MADL)		
• Proprietary	Proprietary	Not Listed
• Proprietary	Proprietary	Not Listed
• Proprietary	Proprietary	Not Listed
Ethylene glycol monobutyl ether	111-76-2	Not Listed
Proprietary	Proprietary	Not Listed
Sodium sulfate	7757-82-6	Not Listed
U.S California - Proposition 65 - No Significant Risk Levels (NSRL)	Bropriotory	Not Listed
Proprietary	Proprietary	
Proprietary	Proprietary	Not Listed
Proprietary     Studene shuel menchutul other	Proprietary	Not Listed
Ethylene glycol monobutyl ether	111-76-2 Bransisters	Not Listed
Proprietary     Sodium sulfate	Proprietary 7757-82-6	Not Listed
Sodium sulfate	1151-62-0	Not Listed
U.S California - Proposition 65 - Reproductive Toxicity - Female		
Proprietary	Proprietary	Not Listed
Proprietary	Proprietary	Not Listed
Proprietary	Proprietary	Not Listed
Ethylene glycol monobutyl ether	111-76-2	Not Listed
Proprietary	Proprietary	Not Listed
Sodium sulfate	7757-82-6	Not Listed
U.S California - Proposition 65 - Reproductive Toxicity - Male		
- Proprietory	Proprietary	Not Listed
• Proprietary	epiteter y	
• Proprietary	Proprietary	Not Listed
		Not Listed Not Listed
• Proprietary	Proprietary	
Proprietary     Proprietary	Proprietary Proprietary	Not Listed

111-76-2Not ListedProprietaryNot Listed7757-82-6Not Listed

#### **Section 16 - Other Information**

#### **Revision Date**

Liability

24/September/2015

Preparation Date Other Information

**Disclaimer/Statement of** 

- 24/September/2015
- Schedule B Number: 2840.20.0000.
- Information presented herein is believed to be factual, as it has been derived from the works and opinions of persons believed to be qualified experts. However, nothing contained in this information is to be taken as warranty or representation for which the Gold Eagle Co. bears legal responsibility. The user should review any recommendations in the specific context of the intended use to determine whether they are appropriate.

Key to abbreviations

NDA = No Data Available