

SECTION 1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING **1.1 Product identifier Product name:** NPC DC-4 **Product code:** None. SDS No. M-3411-22 1.2 Relevant identified uses of the substance or mixture and uses advised against Grease for industrial applications. Use of the No further relevant information available. substance/mixture: Not applicable. Recommend use/restrictions on use: 1.3 Details of the supplier of the safety data sheet NIPPECO LTD. Company name: No385-14 SHIINOMORI SODEGAURA CHIBA 299-0247 JAPAN Address: **Telephone number:** +81-438-60-2180 1.4 Emergency telephone number

+81-438-60-2180

SECTION 2 HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification(EC1272/2008):	The product is not classified as hazardous according to the CLP regulation.		
Physical hazards:	Flammable solids:	Not classified.	
	Pyrophoric solids:	Not classified.	
	Self-heating substances and mixtures:	Not classified.	
	Corrosive to metals:	Not classified.	
Health hazards:	Acute toxicity-Oral:	Classification not possible.	
	Acute toxicity-Dermal:	Classification not possible.	
	Acute toxicity-Inhalation: mist:	Classification not possible.	
	Skin corrosion/irritation:	Classification not possible.	
	Eye damage/ irritation:	Classification not possible.	
	Sensitization-Respiratory:	Classification not possible.	
	Sensitization-Skin:	Classification not possible.	
	Germ cell mutagenicity:	Classification not possible.	
	Carcinogenicity:	Classification not possible.	
	Reproductive toxicity:	Classification not possible.	
	Specific target organ toxicity -Single exposure:	Classification not possible.	
	Specific target organ toxicity -Repeated exposure:	Classification not possible.	
	Aspiration hazard:	Classification not possible.	
Environmental hazards:	Hazardous to the aquatic environment -Acute (short-term) aquatic toxicity:	Classification not possible.	



	-Chronic (long term) aquatic toxicity:
	The hazards without the above mention are "Not applicable" or "Classification not possible".
Classification(OSHA HCS 29 (CFR 1910.1200):
	The product is not classified as hazardous according to OSHA GHS regulations within the
	United States.
2.2 Label elements	
Hazard pictogram(s):	No pictogram.
Signal word:	No signal word.
Hazard statement(s):	No hazard statement.
Precautionary statement(s):	
Prevention:	Not required.
Response:	Not required.
Storage:	Not required.
Disposal:	Not required.
2.3 Other hazards	
Other hazards which do	Combustibility. Keep away from ignition sources such as heat/sparks/open flames.
not result in classification:	Vapors from this product at high temperatures (above 150° C) may irritate respiratory passages.
	Inhalation of decomposition products of this material may cause polymer fume fever, a
	temporary flu-like illness accompanied by fever, chills, and sometimes cough, of
	approximately 24 hours duration.

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mix	ture	Mixture						
Ingredient(s):								
Chemical name	CAS#	EC#	Wt%	EU	EU	USA	ACGIH	EU
/ generic name				Hazard class	Category code	OSHA PEL	TLV	ILV
Synthetic silicone	Confidential	Confidential	45-55	None	None	Not established	Not established	Not
base oil								established
Di ester base oil	Confidential	Confidential	25-35	None	None	Not established	Not established	Not
								established
Lithium soap	4485-12-5	224-772-5	5-15	None	None	Not established	10mg/m ³	Not
thickener (Lithium							(TWA :as	established
stearate)							stearates)	
Additive (Polytetra	Confidential	Confidential	5-15	None	None	Not established	Not established	Not
fluoro ethylene)								established

Carcinogen:

Chemical name: None. CAS#:

Reference:

No component of this product is listed as a human carcinogen or a potential carcinogen in IARC Monographs, U.S. NTP, OSHA regulation, and Annex VI of Regulation (EC) 1272/2008.

PBT substance and vPvB substance:

Chemical name: None. CAS#: Category:



No component of this product is a PBT or vPvB substance under Regulation (EC)1907/2006.

A statement that the specific chemical identity(ies) and/or exact percentage(s) of composition has been withheld as a trade secret.

SECTION 4 FIRST AID MEASURES

4.1 Description of first aid measure	\$	
Inhalation:	Remove exposed person to fresh air if adverse effects are observed.	
Skin:	Wash with soap and water. Get medical attention if irritation develops.	
Eye:	Flush immediately with water for at least 15 minutes. Get immediate medical attention.	
Ingestion:	Do not make person vomit unless directed to do so by medical personnel.	
Protection of first-aiders:	No action shall be taken involving any personal risk or without suitable training.	
4.2 Most important symptoms and	effects, both acute and delayed	
	See SECTION 11 for more detailed information on health effects and symptoms.	
4.3 Indication of any immediate me	edical attention and special treatment needed	
Notes to physician:	Treatment should in general be symptomatic and directed to relieving any effects.	

SECTION 5 FIRE FIGHTING MEASURES

5.1 Extinguishing media	
Suitable extinguishing media:	Use water fog, foam, dry chemical or carbon dioxide to extinguish flames.
Unsuitable extinguishing	DO NOT use forcible water. See Section 11 for more detailed information on health effects and
media:	symptoms.
5.2 Special hazards arising from th	e substance or mixture
Hazards from the substance	In a fire or if heated, a pressure increase will occur and the container may burst.
or mixture:	Formation of toxic gases is possible during heating or in case of fire.
Hazardous combustion	Combustion products may include the following:
products:	Carbon oxides (CO, CO ₂), SiO ₂ , HF, COF ₂ .
	Decomposition at flame temperatures may form toxic fluorine compounds. Avoid breathing
	decomposition products.
5.3 Advice for firefighters	
Special precautions for	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a
fire-fighters:	fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment	Fire-fighters should wear appropriate protective equipment and self-contained breathing
for fire-fighters:	apparatus with a full face-piece operated in positive pressure mode.

SECTION 6 ACCIDENTAL RELEASE MEASURES

SAFETY DATA SHEET



Should be prevented from contaminating soil or from entering sewage and drainage systems

and bodies of water.

6.3 Methods and material for containment and cleaning up			
Small spill:	Move containers from spill area. Absorb with an inert material and place in an appropriate		
	waste disposal container. Dispose of via a licensed waste disposal contractor.		
Large spill:	Move containers from spill area. Prevent entry into sewers, water courses, basements or		
	confined areas. Contain and collect spillage with non-combustible, absorbent material e.g. sand,		
	earth, vermiculite or diatomaceous earth and place in container for disposal according to local		
	regulations. Suction or scoop the spill into appropriate disposal or recycling vessels, then cover		
	spill area with oil absorbent. Dispose of via a licensed waste disposal contractor.		
6.4 Reference to other sections			
	See SECTION 7 for information on safe handling.		
	See SECTION 8 for information on personal protection equipment.		
	See SECTION 13 for disposal information.		

SECTION 7 HANDLING AND STORAGE

7.1 Precautions for safe handling				
Protective measures:	Put on appropriate personal protective equipment (see SECTION8).			
Advice on general	Workers should wash hands and face before eating, drinking and smoking. Avoid contact			
occupational hygiene:	with eyes, skin and clothing. Avoid breathing vapor or mist. Keep in the original container or			
	an approved alternative made from a compatible material, kept tightly closed when not in use.			
	Empty containers retain product residue and can be hazardous. Do not reuse container.			
7.2 Conditions for safe storage, inc	7.2 Conditions for safe storage, including any incompatibilities			
	Store in accordance with local regulations. Store in a dry, cool and well-ventilated area, away			
	from incompatible materials (see SECTION 10). Keep away from heat and direct sunlight.			
	Keep container tightly closed and sealed until ready for use. Containers that have been opened			
	must be carefully resealed and kept upright to prevent leakage. Store and use only in			
	equipment/ containers designed for use with this product. Do not store in unlabeled containers.			
Not suitable:	Prolonged exposure to elevated temperature.			
7.3 Specific end use(s)				
	No further relevant information available.			

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

No exposure limit value known on the product itself. OHSA PEL: Not established ACGIH TLV: Not established NIOSH REL: Not established EU ILV: Not established

8.2 Exposure controls

SAFETY DATA SHEET



Appropriate engineering	When mist is generated, the limited part should be ventilated.			
controls:	A washing facility/water for eye and skin cleaning purposes should be present.			
Individual protection measures	, such	n as personal	l protective equipment	
Eye/face protection:	Ø	Required	Not required	Wear safety glasses with side shields.
Skin(hand/other) protection:	$\mathbf{\Lambda}$	Required	Not required	To prevent contact, wear impervious clothing
				such as gloves, apron.
Respiratory protection:		Required	☑ Not required	No special respiratory protection equipment is
				required under normal conditions of use with
				adequate ventilation.
				In case of insufficient ventilation, wear suitable
				respiratory equipment.
Thermal hazards:		Required	☑ Not required	Not normally required.
Environmental exposure	Avo	oid release to	the environment.	
controls:				

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance:	Smooth, white, semi-solid.
Odor:	Ester odor.
Odor threshold:	Not determined.
pH:	Not determined.
Melting point/ freezing	Not determined.
point(°C):	
Initial boiling point and	Undetermined.
boiling range (°C):	
Flash point(°C):	>200 (SETA)
Evaporation rate:	Not determined.
Upper/lower flammability or	Not determined.
explosive limits:	
Vapor pressure:	Not determined.
Relative density:	Not determined.
Density/specific gravity:	Ca. 1.1 (25°C)
Solubility(ies):	Negligible (in water).
Partition coefficient: n-	Not determined.
octanol/water:	
Auto-ignition	Not determined.
temperature(°C):	
Decomposition	Not determined.
temperature(°C):	
Viscosity(m Pa s):	Not determined.

SAFETY DATA SHEET



Explosive properties: Oxidizing properties: Not determined.

Not determined.

9.2 Other information

No further relevant information available.

0.1 Reactivity	No specific test data available for this product.		
0.2 Chemical stability	☑ Stable □ Unstable		
3 Possibility of hazardous reacti	ions		
·	□ May Occur ☑ Will not occur		
4 Conditions to avoid	Heat, sparks, flames, and other ignition sources.		
5 Incompatible materials	Acids. Oxidizing agents such as H ₂ O ₂ , permanganates and perchlorates.		
	Halogens and halogenated compounds.		
6 Hazardous decomposition pro	oducts		
	Carbon oxides (CO, CO ₂), SiO ₂ , HF, COF ₂ .		
CTION 11 TOXICOLOGIC	AL INFORMATION		
1 Information on toxicological e	ffects		
Likely routes of exposure:	Eye contact, skin, ingestion.		
Symptoms related to the physic	cal, chemical, and toxicological characteristics:		
	See SECTION 4 for skin contact, eye contact, and ingestion.		
Delayed and immediate effects	and also chronic effects from short and long term exposure:		
	Not applicable.		
Numerous measures of toxicity	7 :		
	Not applicable.		
Acute toxicity:	Oral rats LD50: > 5000 mg/kg, (Base oil).		
	Dermal : No data available		
	Inhalation (vapor): No data available.		
	Inhalation (mist) : No data available.		
Skin corrosion/irritation:	No known significant effects or critical hazards.		
Serious eye damage/ irritation:	No known significant effects or critical hazards.		
Sensitization-Respiratory:	No known significant effects or critical hazards.		
Sensitization-Skin:	No known significant effects or critical hazards.		
Germ cell mutagenicity:	No known significant effects or critical hazards.		
Carcinogenicity:	Base oil, Thickener, Additives: Not listed by IARC, OSHA, NTP, EU and ACGIH.		
Toxic to reproduction:	No known significant effects or critical hazards.		
Specific target organ systemic toxicity following single exposure:	No known significant effects or critical hazards.		

exposure:

SAFETY DATA SHEET



Specific target organ systemic toxicity following repeated exposure:	No known significant effects or critical hazards.
Aspiration hazard:	No known significant effects or critical hazards.
	Vapors(formaldehyde may release) from this product at high temperatures(above 150° C)
	may irritate respiratory passages. So, use adequate ventilation when this product is heated
Other information:	at approximately 150° C and above in the presence of air.

SECTION 12 ECOLOGICAL INFORMATION

12.1 Toxicity		
Aquatic:	No further relevant information available.	
Terrestrial:	No further relevant information available.	
12.2 Persistence and degradability		
	No specific test data available for this product.	
12.3 Bioaccumulative potential	No further relevant information available.	
12.4 Mobility in soil	No further relevant information available.	
12.5 Results of PBT and vPvB assessment		
	Not applicable.	
12.6 Other adverse effects	No additional information available.	

SECTION 13 DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product and packaging:	Place contaminated materials in disposable containers and dispose of in a manner consistent
	with applicable regulations. Contact local environmental or health authorities for approved
	disposal of this material.

SECTION 14 TRANSPORT INFORMATION		
14.1 UN number	Not regulated.	
14.2 UN proper shipping name	Not regulated.	
14.3 Transport hazard class(es)	Not regulated.	
14.4 Packing group	Not regulated.	
14.5 Environmental hazards		
Marine pollutant:	Yes Chemical name (wt%)	
	1 No	
14.6 Special precautions for user	Not applicable.	
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code		
	Not applicable.	

SECTION 15 REGULATORY INFORMATION

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

SAFETY DATA SHEET



EU information (EC)1907/2006 Title VII:	Not regulated.
(EC)1907/2006	
Title VIII:	Not regulated.
(EC)1005/2009:	Not regulated.
(EC)805/2004:	Not regulated.
(EU)649/2012:	Not regulated.
Others:	No further relevant information available.
USA information	
TSCA (Toxic substances contro	ol act)
	Not regulated. All ingredients are listed.
Information on the label under	OSHA HCS
Signal word:	Not required.
Hazard statement(s):	Not required.
Pictogram(s):	Not required.
Precautionary statement(s):	Not required.
Unclassified hazards	Not applicable.
(HNOC):	
Percentage of ingredient(s)	Not applicable.
with unknown toxicity:	
SARA Title III § 313	
	Chemical name: None. Wt%:
California proposition 65	
	Chemical name: None. Wt%:
Others	No further relevant information available.
15.2 Chemical safety assessment	
	This product contains substances for which Chemical Safety Assessments are still required.
SECTION 16 OTHER INFORM	MATION
Other Information	
	No additional information available.
Date of Issue:	August 19,2016
The date of preparation of the	Not applicable.
SDS or the last change to it:	
Literature reference:	
- U.S. Department of Labor, 29CF	R Part 1910.
- U.S. Environmental Protection A	

- U.S. Consumer Product Safety Commission, 16CFR Part 1500.

SAFETY DATA SHEET



- ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices.
- U.S. Department of Health and Human Services National Toxicology Program, Annual Report on Carcinogens.
- World Health Organization International Agency for Research on Cancer, IARC Monographs on the Evaluation on the Carcinogenic Risk of Chemicals to Humans.

- EU Regulation (EC) 1005/2009, (EC) 805/2004, (EU) 649/2012, (EC) 1907/2006, (EC) 1272/2008 and Their Amendments.

Abbreviations:

EU: European Union.

CLP: Regulation in the European Union through Classification and Labelling of Chemicals.

TSCA: Toxic Substances Control Act.

- OSHA HCS: Occupational Safety and Health Act, Hazard Communication Standard (USA).
- GHS: Globally Harmonized System of Classification and Labelling of Chemicals.
- OSHA PEL: PEL (Permissible Exposure Limit) under Occupational Safety and Health Administration.

ACGIH TLV: TLV (Threshold Limit Value) under American Conference of Governmental Industrial Hygienists.

EU ILV: Indicative Limit Values for Occupational Exposure under EU Directive 91/322/EEC, 2000/39/EC and 2006/15/EC.

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative.