NAC- DF-2027 Safety Data Sheet

Defoamer and Air Release Additive (Silicone Based)

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product identifier used on the label:	NAC-DF 2027	
Recommended use of the chemical and restriction on use:	Recommended use:	additives for inks, varnishes or coatings, Levelling agent
	Recommended use:	for industrial use only
	Unsuitable for use:	Uses other than recommended
Details of the supplier of the safety data sheet:	Company:	Noyan Afzon Chem, IRAN
	Telephone:	+98 2144787098
Other means of identification:	Chemical family:	Contains: additives, organic solvent

SECTION 2. HAZARDS IDENTIFICATION

According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

Classification of the product:	Asp. Tox.	1	Aspiration hazard.
	Flam. Liq.	3	Flammable liquids.
	Skin Corr./Irrit.	2	Skin corrosion/irritation
	Eye Dam./Irrit	2A	Serious eye damage/eye irritation
	Skin Sens.	1	Skin sensitization.
	Aquatic Acute.	2	Hazardous to the aquatic environment – acute
	Aquatic Chronic.	2	Hazardous to the aquatic environment – chronic

Label elements:
Pictogram:

Signal Word:	Danger	
Hazard Statement:	H226	Flammable liquid and vapor.

	H319	Causes serious eye irritation.
	H315	Causes skin irritation.
	H317	May cause an allergic skin reaction.
	H304	May be fatal if swallowed and enters airways.
	H401	Toxic to aquatic life.
	H411	Toxic to aquatic life with long lasting effects.
Precautionary Statements (Prevention):	P280	Wear protective gloves and eye protection or face protection.
	P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
	P273	Avoid release to the environment.
	P280	Wear eye protection.
	P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
	P243	Take action to prevent static discharges.
	P241	Use explosion-proof electrical, ventilating and lighting equipment.
	P272	Contaminated work clothing should not be allowed out of the workplace.
	P264	Wash contaminated body parts thoroughly after handling.
	P233	Keep container tightly closed.
	P240	Ground and bond container and receiving equipment.
	P242	Use only non-sparking tools.
Precautionary Statements (Response):	P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

	P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER or physician.
	P303 + P361 + P353	IF ON SKIN (or hair): Remove or Take off immediately all contaminated clothing. Rinse skin with water or shower.
	P333 + P313	If skin irritation or rash occurs: Get medical attention.
	P332 + P313	If skin irritation occurs: Get medical attention.
	P362 + P364	Take off contaminated clothing and wash it before reuse.
	P391	Collect spillage.
	P331	Do NOT induce vomiting.
	P337 + P313	If eye irritation persists: Get medical attention.
	P370 + P378	In case of fire: Use foam or dry powder for extinction.
Precautionary Statements (Storage):	P405	Store locked up.
	P403 + P235	Store in a well-ventilated place. Keep cool.
Precautionary Statements (Disposal):	P501	Dispose of contents and container to hazardous or special waste collection point.

SECTION 3. FIRST AID MEASURES

Description of first aid measures:

General advice: Immediately remove contaminated clothing.

If inhaled: If difficulties occur after vapor/aerosol has been inhaled, remove to fresh air and seek medical attention.

If on skin: Wash affected areas thoroughly with soap and water. Immediately remove contaminated clothing. Wash contaminated clothing before reuse. Seek medical attention.

If in eyes: Wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist. Remove contact lenses, if present. If symptoms persist, seek medical advice.

If swallowed: Aspiration hazard Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor.

SECTION 4. FIREFIGHTING MEASURES

Extinguishing media:

Suitable extinguishing media: Dry powder, foam

Unsuitable extinguishing media for safety reasons: No data available.

Special hazards arising from the substance or mixture

Hazards during fire-fighting:

Harmful vapors

Evolution of fumes/fog. The substances/groups of substances mentioned can be released in case of fire.

Advice for fire-fighters:

Protective equipment for fire-fighting:

Wear a self-contained breathing apparatus.

Further information:

The degree of risk is governed by the burning substance and the fire conditions. Contaminated extinguishing water must be disposed of in accordance with official regulations.

SECTION 5. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Use personal protective clothing. Breathing protection required.

Can release flammable vapors. Wind direction should be noted. Avoid all sources of ignition: heat, sparks, open flame. Use antistatic tools.

Environmental precautions:

Contain contaminated water/firefighting water. Do not discharge into drains/surface waters/groundwater.

Methods and material for containment and cleaning up:

For large amounts: Pump off product.

For residues: Pick up with suitable absorbent material. Dispose of absorbed material in accordance with regulations.

SECTION 6. HANDLING AND STORAGE

Precautions for safe handling:

Ensure thorough ventilation of stores and work areas.

Protection against fire and explosion:

Sources of ignition should be kept well clear. Take precautionary measures against static discharges. If delivered in plastic packing, highest permissible emptying temperature is 5 Kelvin below the flash point.

Conditions for safe storage, including any incompatibilities:	Segregate from bases. Segregate from strong acids. Segregate from oxidants. Segregate from amines. Further information on storage conditions: Small amounts of hydrogen may be evolved during shipping and storage. Avoid all sources of ignition: heat, sparks, open flame. Protect against moisture. Keep in a cool, well-ventilated place. Containers should be stored tightly sealed in a dry place. Store as flammable liquid.

SECTION 7. EXPOSURE CONTROLS/PERSONAL PROTECTION

No occupational exposure limits known.

Advice on system design:	No applicable information available.
Personal protective equipment Respiratory protection:	Wear a NIOSH-certified (or equivalent) organic vapor/particulate respirator.
Hand protection:	Chemical resistant protective gloves.
Eye protection:	Tightly fitting safety goggles (chemical goggles). Wear face shield if splashing hazard exists.
Body protection:	Impermeable protective clothing.
General safety and hygiene measures:	Handle in accordance with good industrial hygiene and safety practice.

SECTION 8. PHYSICAL AND CHEMICAL PROPERTIES

Form:	Liquid
Odor:	Alcohol-like
Odor threshold:	No applicable information available
Color:	Colorless to yellowish
pH value:	Not determined
Melting temperature:	No data available
Boiling temperature:	> 145 °C (1,013 hPa)
Boiling range:	No data available
Sublimation point:.	No applicable information available
Flash point:	120 °C (ASTM D93)

Flammability:	Flammable liquid and vapor. (derived from flash point)
Lower explosion limit:	For liquids not relevant for classification and labelling. The lower explosion point may be 5 - 15 °C below the flash point.
Upper explosion limit:	For liquids not relevant for classification and labelling.
Autoignition:	Not determined
Density:	0.92 g/cm3 (20 °C) (ISO 2811-3)
Relative density:	0.92
Vapor density:	Not determined
Partitioning coefficient noctanol/ water (log Pow):	not applicable for mixtures
Self-ignition temperature:	Not self-igniting
Thermal decomposition:	Not determined
Solubility in water:	Insoluble
Solubility (quantitative):	No applicable information available.
Solubility (qualitative):	Insoluble
Solvent(s):	Organic solvents,
Molar mass:	No applicable information available.
Evaporation rate:	Not determined

SECTION 9. STABILITY AND REACTIVITY

Reactivity:	Liberates hydrogen when in contact with following materials: water, alcohols, acids, bases, metals, metal alloys not dangerous goods of class 4.3, since the rate of evolution of flammable gas formed in contact with water is below 1 liter per kilogram substance per hour. Vapors may form explosive mixture with air. Oxidizing properties: Not fire-propagating.
Chemical stability:	The product is stable if stored and handled as prescribed/indicated.
Possibility of hazardous reactions:	Some hydrogen gas may be released. Hydrogen is flammable and can form explosive mixtures with air. The product is chemically stable.
Conditions to avoid:	Avoid direct contact with water. Product may release hydrogen gas - increased storage temperatures will accelerate this process. (cf. chapter 7 for the storage temperature).

Incompatible materials	water, alcohols, strong acids, strong alkalis, strong oxidizing agents.
Hazardous decomposition products:	Decomposition products: Hazardous decomposition products: No hazardous decomposition products if stored and handled as prescribed/indicated. Thermal decomposition: not determined.

SECTION 10. DISPOSAL CONSIDERATIONS

Waste disposal of substance:	Dispose of in accordance with national, state and local regulations.
Container disposal:	Uncontaminated packaging can be re-used. Packs that cannot be cleaned should be disposed of in the same manner as the contents.

WARNING: Empty containers may still contain hazardous residue.

SECTION 11. TRANSPORT INFORMATION

Land transport
USDOT

Hazard class:	3
Packing group:	III
ID number:	UN 1993
Hazard label:	3, EHSM
Proper shipping name:	FLAMMABLE LIQUID, N.O.S.

Sea transport
IMDG

Hazard class:	3
Packing group:	III
ID number:	UN 1993
Hazard label:	3, EHSM
Marine pollutant:	YES
Proper shipping name:	FLAMMABLE LIQUID, N.O.S.

Air transport
IATA/ICAO

Hazard class:	3
Packing group:	III
ID number:	UN 1993
Hazard label:	3

Proper shipping name: FLAMMABLE LIQUID, N.O.S.

END OF DATA SHEET