



We think of the earth the mother  
Of water!

**Shin-ei JAPAN**

# **CLASS ONE**

**High-performance oil-neutral cleaning/  
decomposition agent Class One series**

**Eco-friendly ultra-strong oil  
cleaner/decomposition  
agent!**

High-performance oil decomposition neutral cleaning/  
decomposition agent Class One!

# CLASS ONE

「If you think about the future of the planet」  
It is a class one series.

Our lives have been enriched by the industry up to now. On the other hand, it is undeniable that we lacked consideration for the environment.

We think the dispersing problem is one of these problems. From this point of view, we have come to pay attention to a technology called "hydrolysis". Normally, the oil we consume is converted into nutrients that the body needs by an enzyme called "lipase" in the body. This conversion process is called "hydrolysis".

"Class One" is a high-performance oil-dissolving neutral cleaner developed based on this process. It is a next-generation cleaning/decomposition agent capable of powerful oil decomposition without adversely affecting the environment.

## Class One 103K

**Ideal for ventilation of restaurants, heating cleaning, treatment of waste oil in factories, and clogging of drainage pipes!**

### ■ Comparison between Class One and general oil removers

	Class One 103K	General commercial product
Product efficacy	Decomposes and destroys oil	Melt oil and remove
How to use	Used as an undiluted solution (Depending on the purpose, diluted 1-2 times for use)	Used as an undiluted solution
Oil properties	<b>Refinement</b> * Natural decomposition * Suppresses the occurrence of odor due to no residue * No oil left on sponge or mop	<b>Maintain high viscosity</b> * Difficulty of natural decomposition of the treated solvent * The treated solvent decays, causing an odor * Oil remains on sponges and rags
Effervescent	Almost no foaming	Water treatment is required due to high foam occur
Biodegradability	Good biodegradation (99% natural decomposition)	Decomposability
Hydrogen ion concentration	Stable to neutral (ph7.0)	Mostly alkaline (over ph11)
Use temperature	Room temperature~40°C or less	Room temperature
smell	Odorless	Addition of spices to some products
flash	No coloration	Addition of colorant for some products
Surfactants	1.2%	20% ~ 70%
Impact on the human body	No influence	Skin trouble, nail trouble
Hazardous substances	none	Risk of skin disease, anemia, liver dysfunction, etc.
Drainage	No clogging of drainage pipes	There is clogging of drainage pipes, etc
Flammability	No ignition or explosion	Risk of ignition
Risks	No risk	Danger when mixed with other treatment agents

### Engine oil decomposition test for diesel engines



### ■ Class One 103K

Classification: Oil remover  
Ingredients \*Glycerin \*Ethanol \*Palm water oil (non-ionic)  
\*Polyoxine ethylene alkyre (nonionic)  
\*Purified water

Usable field: \*Restaurant, school kitchen, heating equipment cleaning  
\* Removal of clogging of drains by regular use in food factories \* Cleaning of grease traps and prevention of odor and insects  
\* Washing (removing parts of oil)

How to use: Put the product in a container such as a spray for use.

Warranty period: 1 year in unopened  
Packaging: 18Liter box



# An eco-friendly product that decomposes various oil lumps and contamination that are difficult to decompose into nano-sized and micelles them to remove

POINT  
1

It is not a method of "melting and moving" oil  
Decomposed into nano size Micelleize.

Disassembled oil contaminants are also dissolved in water and do not recombine over time, so oil adhesion does not occur again inside piping, etc., and oil, such as oil, does not occur in wastewater. (Prevention of secondary pollution)

POINT  
2

The amount of surfactant is very small. 0.2 to 1.2% or less

"Class One" products that use natural materials as the main ingredient Because the amount of surfactant (contains 30-40% in existing detergents), which is the cause of adverse effects on skin problems and natural organisms, is very small, it can be used in combination with other medicines and is not a problem at all.

POINT  
3

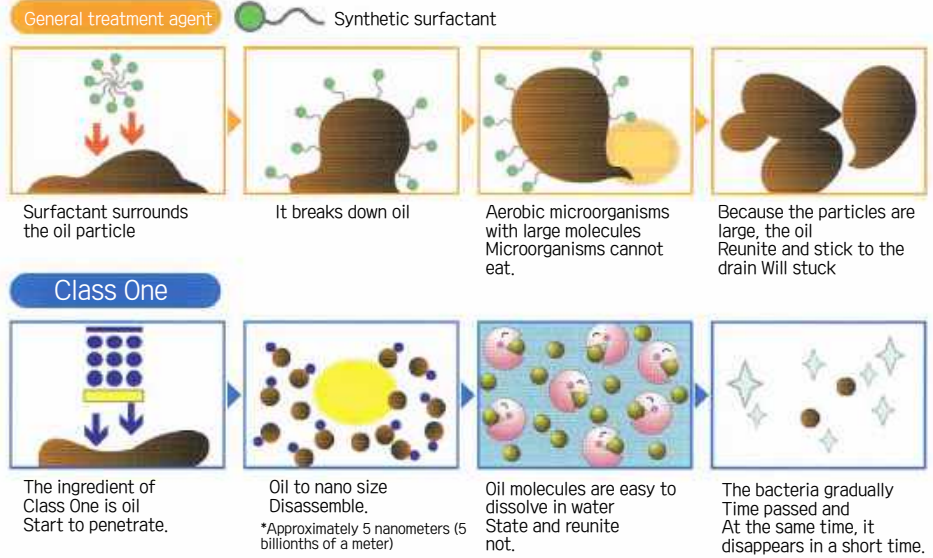
It is neutral and harmless to human body.

"Class One" is a neutral product of pH7 and is not flammable. Since it does not contain petroleum-based detergents and highly toxic substances, you can use it with confidence as it does not cause skin and nail troubles.

## Class One strongly breaks down oil.

Surfactant used in Class One uses natural palm tree oil system in consideration of the environment, and uses highly safe ingredients recognized as food. Surfactant used in this product flows into the river or the sea, becomes food for microorganisms, etc., is decomposed and returned to its natural state.

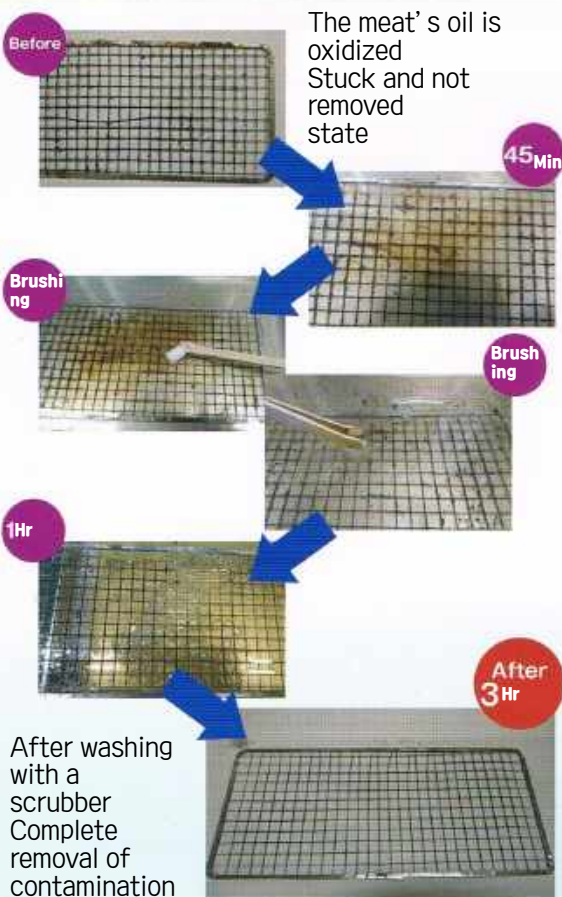
## Comparison between general treatment agents and class one oil decomposition processes



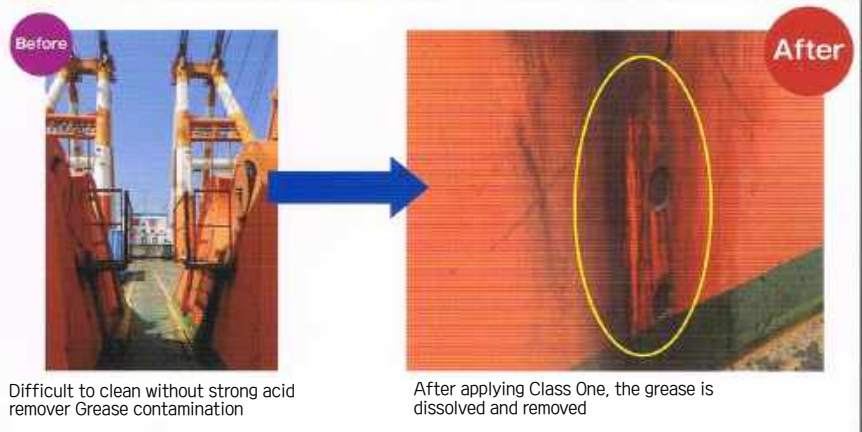
## ClassOne 5000s/s (pH11 Weak alkali)

Factory and factory equipment facilities (including mechanical parts)  
Optimal product for removing contamination such as oil and grease that are difficult to remove from vehicles and ships (including parts)

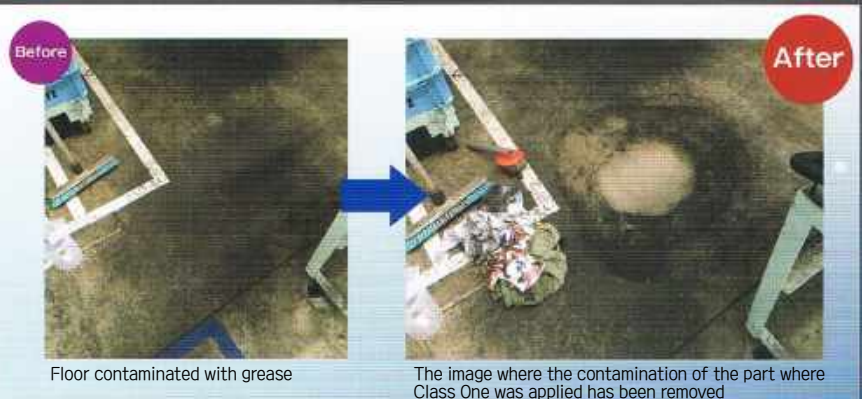
### Grill oil removal test



### Grease contamination removal test of ships, etc.



### Factory floor washing





# Class One SEA (ph7 neutral)

**The only liquid oil decomposition agent approved by the Ministry of Land, Infrastructure and Transport in Japan for direct maritime administration**

Class One SEA is a safe oil-dissolving agent that has passed the strict test conducted by the Japan Maritime Security Agency as a product that has been obtained type approval from the Ministry of Land, Infrastructure and Transport.

## Comparison between Class One and general disintegrant

	Class One 103K	General commercial product
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How to use	Used as a undiluted solution (Depending on the purpose, diluted 1-2 times for use)	Used as an undiluted solution
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Hazardous substances	none	Risk of skin disease, anemia, liver dysfunction, etc.
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Flammability	No ignition or explosion	Risk of ignition
Risks	No risk	Danger when mixed with other treatment agents

## Japan Ministry of Land, Infrastructure and Transport type certification acquisition!



The type approval of the Ministry of Land, Infrastructure and Transport is a system for smoothly carrying out necessary inspections when mass-produced for ships of the same type in accordance with the Ship Safety Act and the Act on the Prevention of Marine Pollution and Marine Disaster (Marine Act).  
is. Class One SEA is a liquid oil remover that can supply high quality and stable supply with type approval.  
Type Certificate No. 1P-642 issued by the Ministry of Land, Infrastructure and Transport (November 6, 2018)

## Japan Maritime Security Agency test report

試験項目	試験結果	試験方法
引込み (℃)	79	
動粘度 (30℃, mm <sup>2</sup> /s)	0.42	
重合率 (%)	58.5	30分後
	78.5	10分後
分解率 (%)	90.5	
殺菌効果性 (ppm)	1,600 E.L.	
比重 (20℃)	0.806	

Oil treatment performance standard  
Fahrenheit 61°C or higher  
50mm/s or less at 30°C  
60% or more (oil decomposition rate)  
20% or more (oil decomposition rate)  
90% or more (degradation by microorganisms)  
100ppm or more (ecological toxicity)  
3000ppm or more (ecological toxicity)

## Zero environmental pollution of wastewater after oil absorption!



## No flammability and explosiveness, so it is effective in the treatment of jet fuel.



## Neutral ingredient treatment agent, harmless to human body



Drainage treatment is possible with peace of mind as there is no worry of environmental pollution due to the very small amount of surfactant. It is also effective in soil contamination by oil.

The risk of explosion or ignition is reduced because spilled fuel is disassembled instantly. Treatment is possible without the use of adsorbents or adsorption mats.

As a neutral product of ph7, it is non-flammable and is an eco-friendly oil treatment agent that is completely harmless to the human body, unlike petroleum-based detergents and highly toxic (environmental hormone problems) products.

**Maker**  
**Shinei Japan Co., Ltd.**

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Business Areas  
Sales of functional water manufacturing equipment, ultra-purified water, ion-converted water manufacturing equipment, reverse osmosis membrane (RO) equipment, water and well purification equipment  
Manufacturing and sales of clean peripheral devices



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취급證