Appropriate management of

Appropriate waste management ↓

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Management of pollution including waste

chemicals ↓

Preventing pollution of soil and groundwater ↓

Measures to prevent pollution ↓

The chemicals used at our sites are managed through the surveys of chemical use described above, as well as through Green Procurement Management Standard for Chemical Substances For HAMAMATSU Group 1. These substances are controlled especially carefully during the disposal phase. Japan's Environmental Basic Act lists seven typical forms of pollution that can be harmful to human health and living environments: (1) Air pollution, (2) Water pollution, (3) Soil pollution, (4) Noise, (5) Vibration, (6) Land subsidence, and (7) Odor. At Hamamatsu Photonics, we manage all these forms of pollution according to the law and our

own standards from the perspective of preventing accidents that can cause pollution. When the possibility of pollution from our business activities arises, we move promptly to identify the source of the pollution, report the matter to the competent authorities and local communities and strive to return conditions to their original state. *1 Green Procurement Management Standard for Chemical Substances For HAMAMATSU Group: Hamamatsu Photonics' in-house standards applying to substances the Company designates as the Environment-related Substances. We also have the Green Procurement Management Standard for Chemical Substances For Suppliers which sets the same level of criteria as the standard for HAMAMATSU Group sets, which focuses on chemicals contained in products/parts supplied by suppliers and is opened to the public.

Note: The data tabulation period is based on the Company's fiscal year. FY2021: October 1, 2020 to September 30, 2021 FY2020: October 1, 2019 to September 30, 2020 FY2019: October 1, 2018 to September 30, 2019 FY2018: October 1, 2017 to September 30, 2018 FY2017: October 1, 2016 to September 30, 2017

Twice a year, Hamamatsu Photonics conducts a survey of the status of chemical use, to gain an understanding of the full extent of its use of chemicals in manufacturing processes and the like. Among these are Class I specified chemicals 2 as designated in the

Appropriate management of chemicals

PRTR system. When chemicals of this type are handled by the Company in quantities of 1 t per year or more, they become subject to reporting. In 2020 the Main Factory and Miyakoda Factory reported the use of 4 such chemicals. The chemicals reported by Hamamatsu Photonics, the volume of Class I specified chemicals handled in each fiscal year*3, and their output per unit of net sales are as shown below. In FY2021, Volume handled was increased than previous fiscal year because of production increased. On the other hand, volume handled per unit of net sales was same level as previous fiscal year because net sales increased.

(SDSs) are required. As of January 2022, 462 substances are designated as Class I specified chemicals. https://www.meti.go.jp/policy/chemical_management/law/prtr/2.html >

FY2016

its water-

Toyooka Factory Tenno Glass Works 1. 2-amino 1. 2-amino 1. 2-amino

FY2018

ethanol

soluble salts

FY2019

ethanol

soluble salts

FY2020

ethanol

soluble salts

*2 Chemicals for which both submission of the volume released into the environment under the PRTR system and provision of safety data sheets

*3 Chemicals of this type used by any of the Company's business locations in quantities of over 1 kg per year are subject to tabulation.

FY2017

its water-

Substances subject to reporting based on the PRTR system

1. 2-amino 1. 2-amino 2. Hydrogen 2. Hydrogen 2. Hydrogen ethanol ethanol fluoride and fluoride and fluoride and 2. Hydrogen Hydrogen its waterits waterits water-Main Factory fluoride and fluoride and

	soluble salts	soluble salts	3. Pyrocatecho	3. Pyrocatecho	3. Pyrocatecho
Mitsue Factory	-	-	-	-	
Shingai Factory	-	-	-	×	
Joko Factory	-	-	-	-	
Central Research Laboratory	_	-		_	
Miyakoda Factory (Compound semiconductor Fabrication Center)	-	-	Ferric chlorides	Ferric chlorides	Ferric chlorides
Industrial Development Research Center	-	-	-	-	
Tsukuba Research Center	-	-	_	-	
Trends in volume of PRTR cheme (t) 20.0 18.0 16.0 14.0 13.1 12.0 6.0 4.0 2.0 FY2017 FY2018	The second secon				
Advancement of SDSs are useful for under and handling them safely. the latest SDSs not only for SDSs is required under the but for all chemicals it handling them.	standing the propertie Hamamatsu Photonic or chemicals for whic e Industrial Safety and	es of chemicals cs ensures that h provision of d Health Act	Intra SDS database	600 SDA開放 MSD-2 OHS	化学名 会社名 ○ F-B-整理 ビービージャン(中) 4529

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(tons)

and disaster response manuals, installs and inspects disaster-response equipment, and regularly holds disaster-response training

We also regularly hold chemical safety educational program for employee. To understand risk about treating chemical substance,

*4 "Zero emissions" is the approach of striving for a society with zero waste disposal. The strategy for achieving this goal consists of reducing resources used and waste generated in production processes while recycling any waste that is unavoidably generated. Hamamatsu Photonics has achieved zero emissions according to the definition in the 3rd Shizuoka Prefecture Recycling Society Plan, which is "a final treatment (landfilling,

0.8

0.7

0.5

0.4

0.3

0.2

0.1

0

FY2019

1,301

(541)

(315)

(152)

(293)

1,050

6.3

*6 Waste designated in law as specified hazardous waste. These include sludge, waste acid, and waste alkali, all containing heavy metals, organic chlorides, and dioxin

Each year Hamamatsu Photonics carries out comprehensive checks of our contracted waste facilities, to ensure that waste is

disposed appropriately. We confirm the details of contractors' waste-treatment licenses, compliance with requirements for

Number of confirmations of status of proper disposal by our contracted waste

FY2018

21

FY2020

1,292

(549)

(307)

(149)

(287)

1,077

2.7

FY2020

19

FY2021

1,491

(618)

(404)

(152)

(317)

1,250

3.7

FY2021

24

FY2021

4.6

Ensuring proper disposal at our contracted waste facilities

Hazardous waste(t)

0.2

FY2020

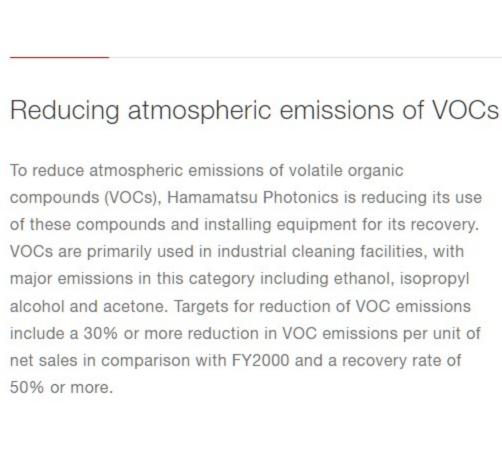
we share internal/external chemical substance accident cases or invite expert from outside to give professional lecture.

sessions. Training sessions include training on response to chemical spills, evacuation drills in preparation for indoor gas leaks

FY2000

FY2017

VOC emissions (tons)



While evaluation of risks associated with chemicals is based

environment in which chemicals are used. At Hamamatsu

storage sites where chemicals are handled, under

Group and share the information appropriately.

and training on respirator tank attachment.

on SDSs, the actual degree of risk is heavily dependent on the

Photonics, we regularly inspect the workplaces and chemical

the Chemicals Working Group. When problems are detected

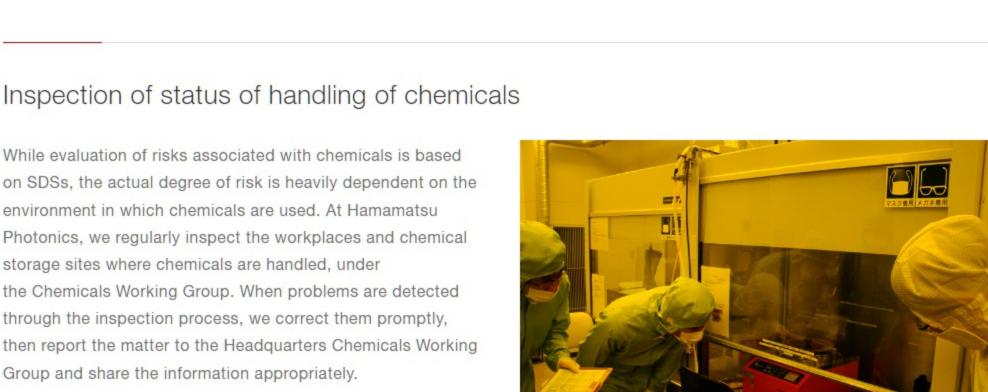
then report the matter to the Headquarters Chemicals Working

through the inspection process, we correct them promptly,

Company's database, playing a role in risk assessment of

surrounding environment.

chemicals and in maintaining the safety of workplaces and the



VOC emissions, reductions and recovery rate by year

FY2018

----Reduction(%)

FY2019

FY2020

--- Recovery rate(%)

Chemical safety training To ensure employees treat chemicals properly and prevent environmental accident, Hamamatsu Photonics has prepared accident

Appropriate waste management

etc.) rate of less than 1.8%," including waste acid and waste alkali.

General waste(t)

*5 Landfill rate: Landfill volume in proportion to waste volume

Trends in output and landfill rate

0.4

FY2018

Valuablest(t)

1,600

1,400

1,200

1,000

800

600

400

200

FY2017

Striving for zero emissions

Based on the appropriate waste treatment as the basic policy, we have been managing wastes properly to achieve the idea of zero emissions 4, to reduce their negative impact on the environment and use resources efficiently. For fiscal year 2020, we recorded the landfill rate^{*5} of 0.2 % and achieved zero emissions. This was accomplished by separating and reducing wastes, reducing inferior goods, reusing equipment and packaging materials and promoting recycling.

FY2017 FY2018 1,168 1,194 Output volume (494)(550)Industrial waste Hazardous (235)(271)waste*6 (141)(123)General waste (298)(251)Valuables Recycling 873 914 volume*7

8.7

FY2019

麦葵物委託先実地確認 基礎情報·処理体系図·総合判定 廃棄物委託先実地確認 個別情報 中間処理業 - 後述契約事記数の表別項目と作べ至の許可及目との一 (株) 展記課題: 他集の役割事業 ・他集の役割時代の申込む ・他集の管理を調査の無力 ・ 販売される場合では、「株別に代えることが行る ・ 販売される場合では、「株別に代えることが行る ・ 販売を行える。 部 76 選用手事者の有数 の運用手事者は有れば望ましいが、決定要係ではな 作政からの立ち入り検査 (検査目: (検査項目: 10 ・地球住民からのクレームの有害 (%--ム内容・ 909世帯変きたているか 受入浄土寺の内容は決めているか (地応集 보스타스바이엄S (事務に関いが記憶点を、関本的による最大があるか ・場合を対象が発生の場合、保管基準に終らして民間をないか ・分類をかけまいで観りませないか。 ・電景度等のを対象して記されていた。 ・もずり、は、はんでのはの質素が含まっぱれられないか の基準

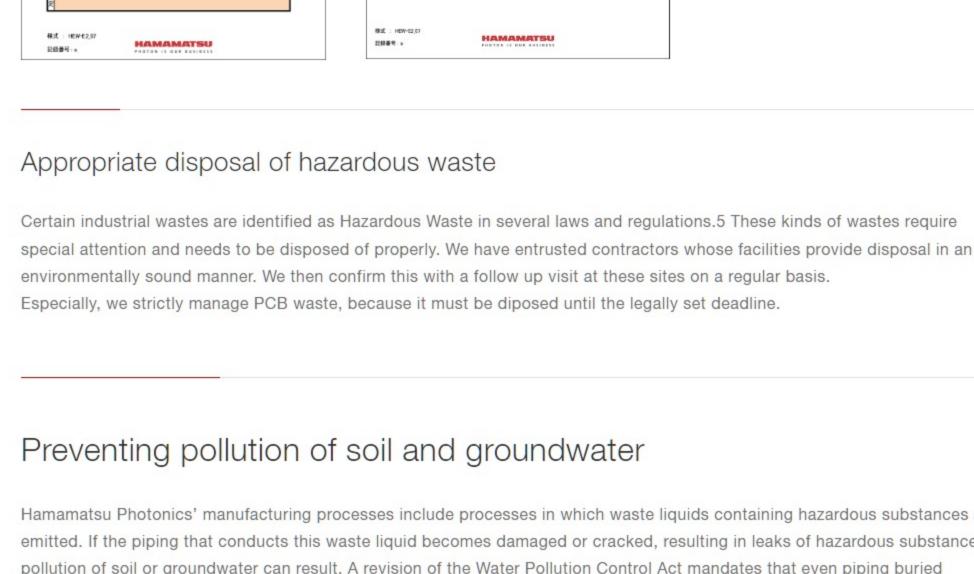
treatment and storage of waste as stipulated in the Waste Disposal and Public Cleansing Act, and whether contractors maintain harmonious relationships with surrounding residential communities. In audits of contractors, we review all processes from waste transport to landfilling. If incorrect treatment occurs (an event for which the Company fortunately has no cases at this time), the Company reports the matter to the competent authorities in accordance with the law.

FY2017

17

FY2019

23



introduce flexible piping in certain places to prevent damage to piping due to vibration.

Placement of buried piping above ground and introduction of flexible piping

Environment>

change >

Products >

Disclosure based on TCFD Recommendations >

Protecting our water resources >

Management of chemicals in products >

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Environmental report back number >

Reducing carbon emissions and climate

Environmentally Friendly and Contributing

Request for survey on chemical

substances in products >

Hamamatsu Photonics works hard to prevent pollution. Our production facilities, most of which are located in Japan, use a range of chemicals in their manufacturing processes, some of which are specified chemicals with the potential to pollute the environment. Under Japanese law, all transfers and emissions of these chemicals must be reported to the government through the Pollutant Release and Transfer Register (PRTR) system. We appropriately report to the competed authority based on the data which stem from the chemical usage survey conducted twice a year.

Measures to prevent pollution

(%)

08

化学物質管理の目的 化学物質関連法規制 化学物質管理要領 - 毒劇物取扱基準 ⑤ 緊急事態対応

above a certain concentration. Also included are PCBs, asbestos, and waste mercury. *7 The amount of recycling is the total amount of material and thermal recycling added to the amount of valuable materials.

facilities

Number of

confirmations

Landfill volume

- 代表的なHPK委託高乗物に対する影響委託は高端を言述させてくだち、
- Hamamatsu Photonics' manufacturing processes include processes in which waste liquids containing hazardous substances are emitted. If the piping that conducts this waste liquid becomes damaged or cracked, resulting in leaks of hazardous substances, pollution of soil or groundwater can result. A revision of the Water Pollution Control Act mandates that even piping buried underground must be inspected for leaks. In light of the risk of pollution with even greater concern, we exhume underground piping and tanks and place them above ground if necessary. In addition, in view of the high incidence of earthquakes in Japan, we

Environmental management >

Green procurement activities >

waste

Contact us

Management of pollution including

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